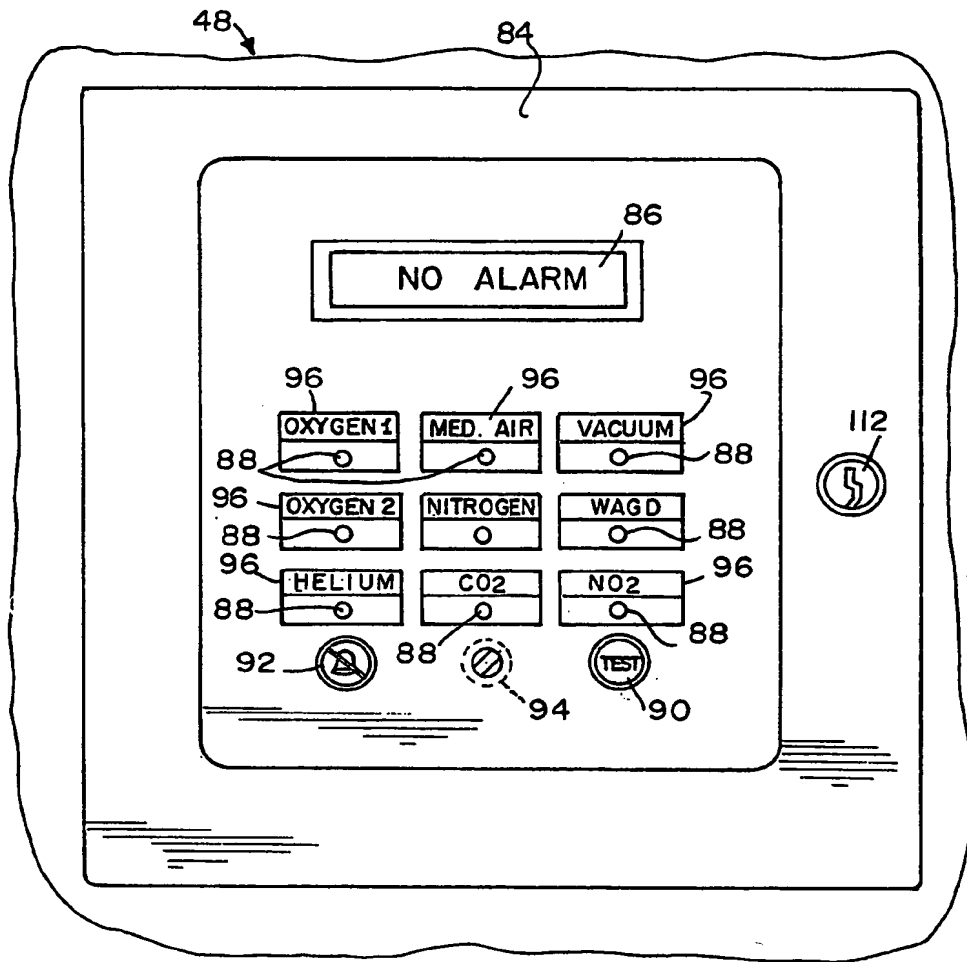


FIG 2

# REPLACEMENT SHEET

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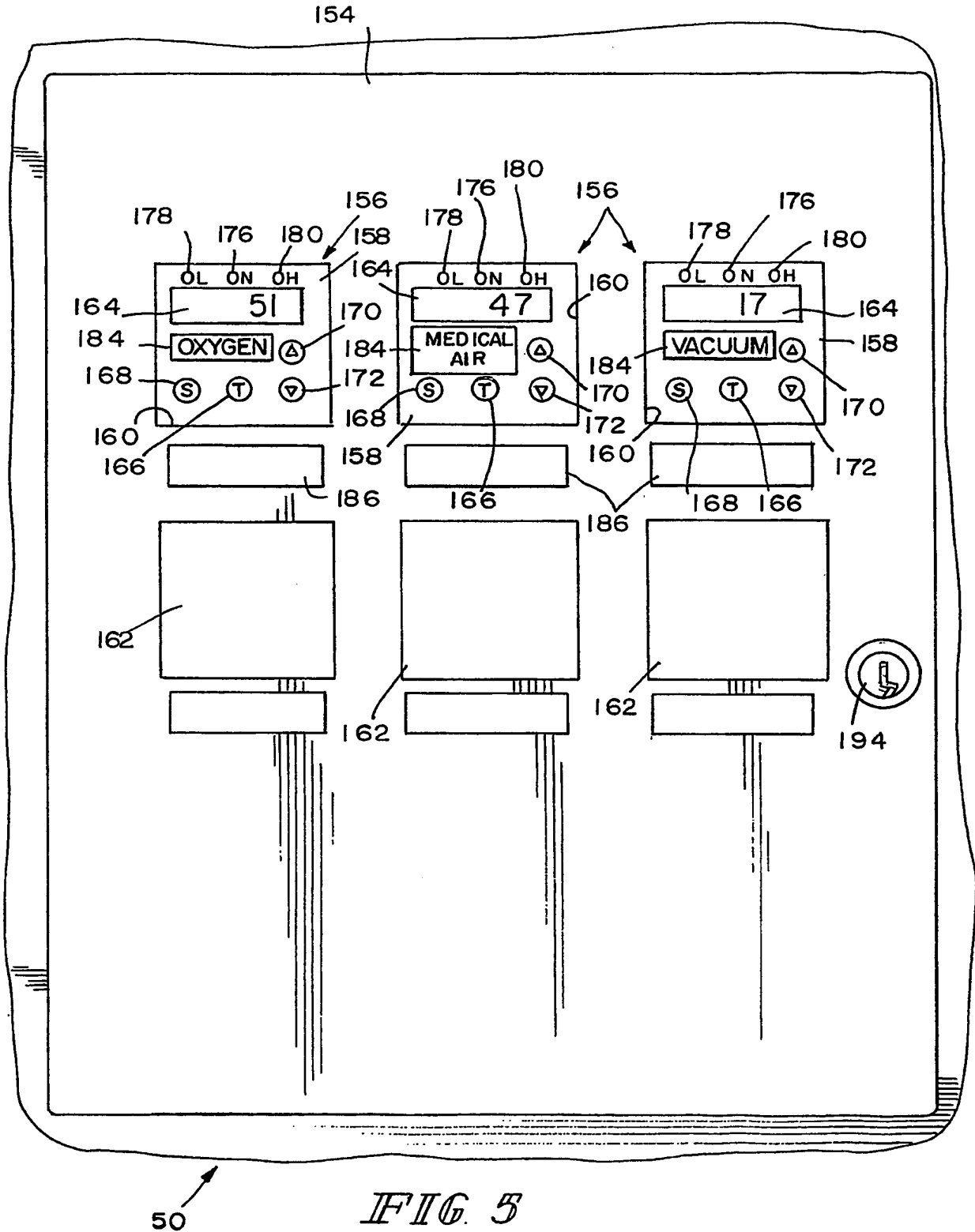
*FIG. 3*

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FIG. 6.

# REPLACEMENT SHEET

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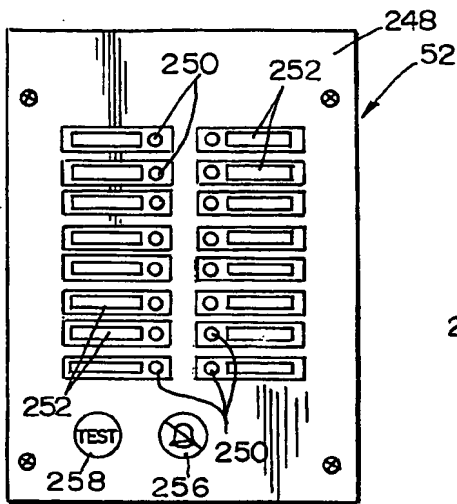


FIG 7

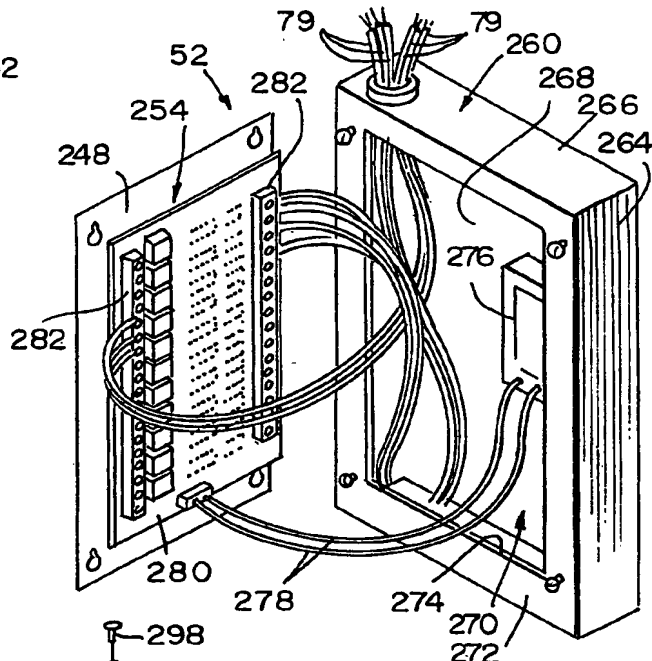
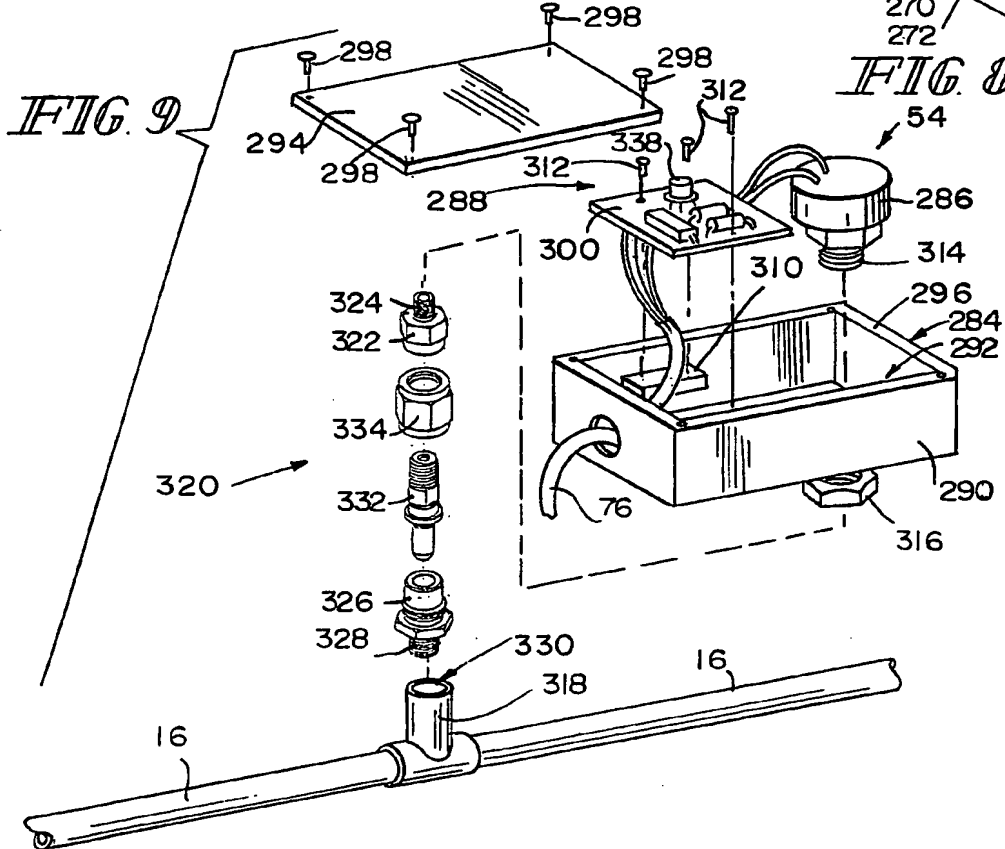


FIG 8



# REPLACEMENT SHEET

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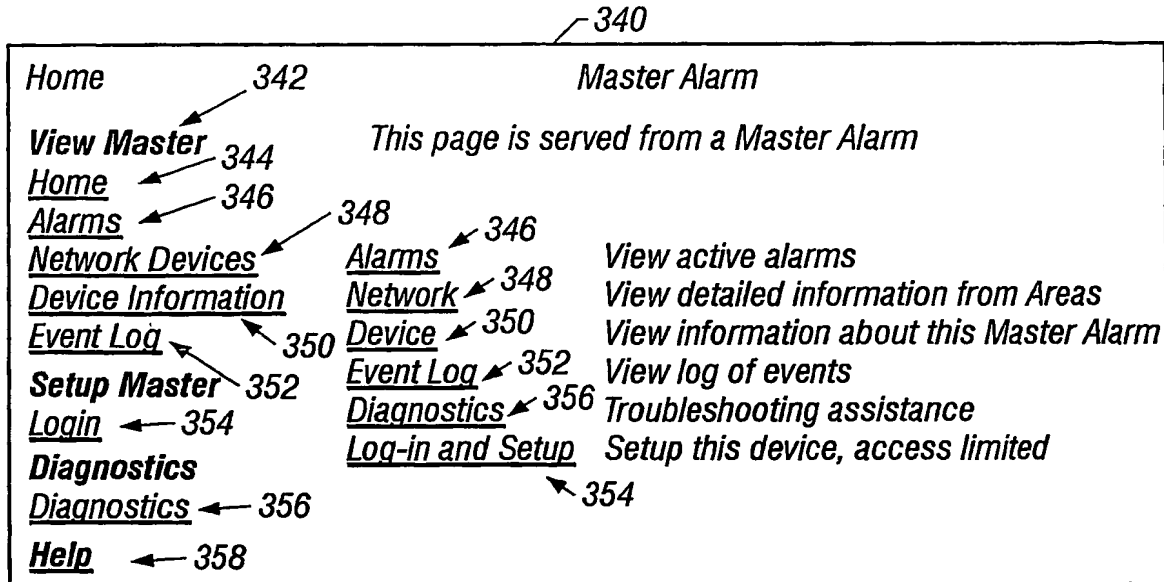


FIG. 10

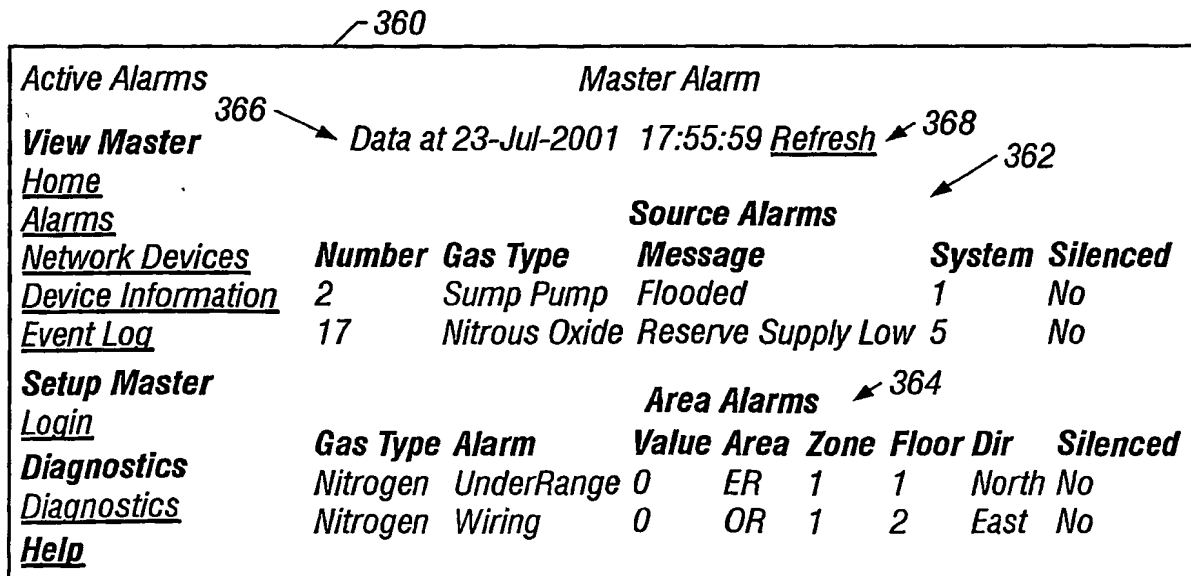


FIG. 11



# REPLACEMENT SHEET

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370

Network Devices <span>374</span> Master Alarm <span>376</span>											
View Master Data at 06-Aug-2001 09:57:48 Refresh											
<a href="#">Home</a>	Device	Jump	View	Type	SN	Area	Zone	Floor	Direction	Status	Alarms
<a href="#">Alarms</a>	This Master	<a href="#">Jump</a>	<a href="#">View</a>	AreaCombo	40000	General	1	1	North	Ok	Fault
<a href="#">Network Devices</a>	Master49000	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	49000	ER	3	2	East	Ok	
<a href="#">Device information</a>	Area39001	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39001	ENG	2	4	North	Ok	None
<a href="#">Event Log</a>	Area39002	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39002	OR	2	2	North	Ok	None
<a href="#">Setup Master</a>	Area39003	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39003	PACU	3	1	North	Ok	None
<a href="#">Login</a>	Area39004	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39004	CCU	1	4	East	Ok	None
<a href="#">Diagnostics</a>	Area39005	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39005	ENG	1	1	North	Ok	None
<a href="#">Diagnostics</a>	Area39006	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39006	OR	1	1	South	Ok	None
<a href="#">Help</a>	Area39010	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39010	PACU	3	2	East	Ok	None
	Area39007	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39007	PACU	3	2	East	Ok	None
	Area39008	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39008	ER	3	5	East	Ok	None
	Area39009	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39009	CCU	3	3	North	Ok	None

372 373

FIG. 12A

378

Device Information		Master Alarm
<a href="#">View Master</a>	Type	Master Alarm
<a href="#">Home</a>	Serial Number	10013
<a href="#">Alarms</a>	Model Number	HRMM-0000-0000
<a href="#">Network Devices</a>	Software Version	0.37
<a href="#">Device Information</a>	Software Build	024
<a href="#">Event Log</a>	Current Time	28-Jun-2001 13:33:39
<a href="#">Setup Master</a>	Date Code	Week 23, 2001
<a href="#">Login</a>	Name	Master10013
<a href="#">Diagnostics</a>	Location	PBX
<a href="#">Diagnostics</a>	Zone	1
<a href="#">Help</a>	Floor	1
	Direction	South
	IP Address	192.168.1.100
	MAC Address	00:03:aa:00:00:13

FIG. 13

# REPLACEMENT SHEET

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375

Specific Area

View Master  
Home  
Alarms  
Network Devices  
Device Information  
Event Log  
Setup Master  
Login  
Diagnostics  
Diagnostics  
Help

387 Master Alarm

Back Refresh 376

Area Communication Module

Name	SN	Area	Zone	Floor	Dir	Status
This Master	40000	General	1	1	North	Ok

379

Area Displays

Gas Type	SN	Trans SN	Item	Value	Units	Alarm	Area	Zone	Floor	Dir	Status
Nitrogen	5000	0	Pressure	0	PSI	None	ER	1	1	North	Wiring
Nitrogen	5004	0	Pressure	0	PSI	None	OR	1	2	East	Wiring

381

FIG. 12B

377

Specific Area

View Master  
Home  
Alarms  
Network Devices  
Device Information  
Event Log  
Setup Master  
Login  
Diagnostics  
Diagnostics  
Help

387 Master Alarm

Back Refresh 376

Area Communication Module

Name	SN	Area	Zone	Floor	Dir	Status
Area39002	39002	OR	2	2	North	Ok

383

Area Displays

Gas Type	SN	Trans SN	Item	Value	Units	Alarm	Area	Zone	Floor	Dir	Status
Oxygen	29021	19021	Pressure	26	PSI	None	ICU	3	4	South	Ok
Medical Air	29022	19022	Pressure	58	PSI	None	ICU	3	4	South	Ok
Medical Air	29023	19023	Pressure	60	PSI	None	CCU	2	5	South	Ok
Oxygen	29024	19024	Pressure	39	PSI	None	CCU	2	4	South	Ok
WAGD	29025	19025	Pressure	30	PSI	None	ICU	3	5	East	Ok
WAGD	29026	19026	Pressure	42	PSI	None	ER	3	5	South	Ok

385

FIG. 12C

# REPLACEMENT SHEET

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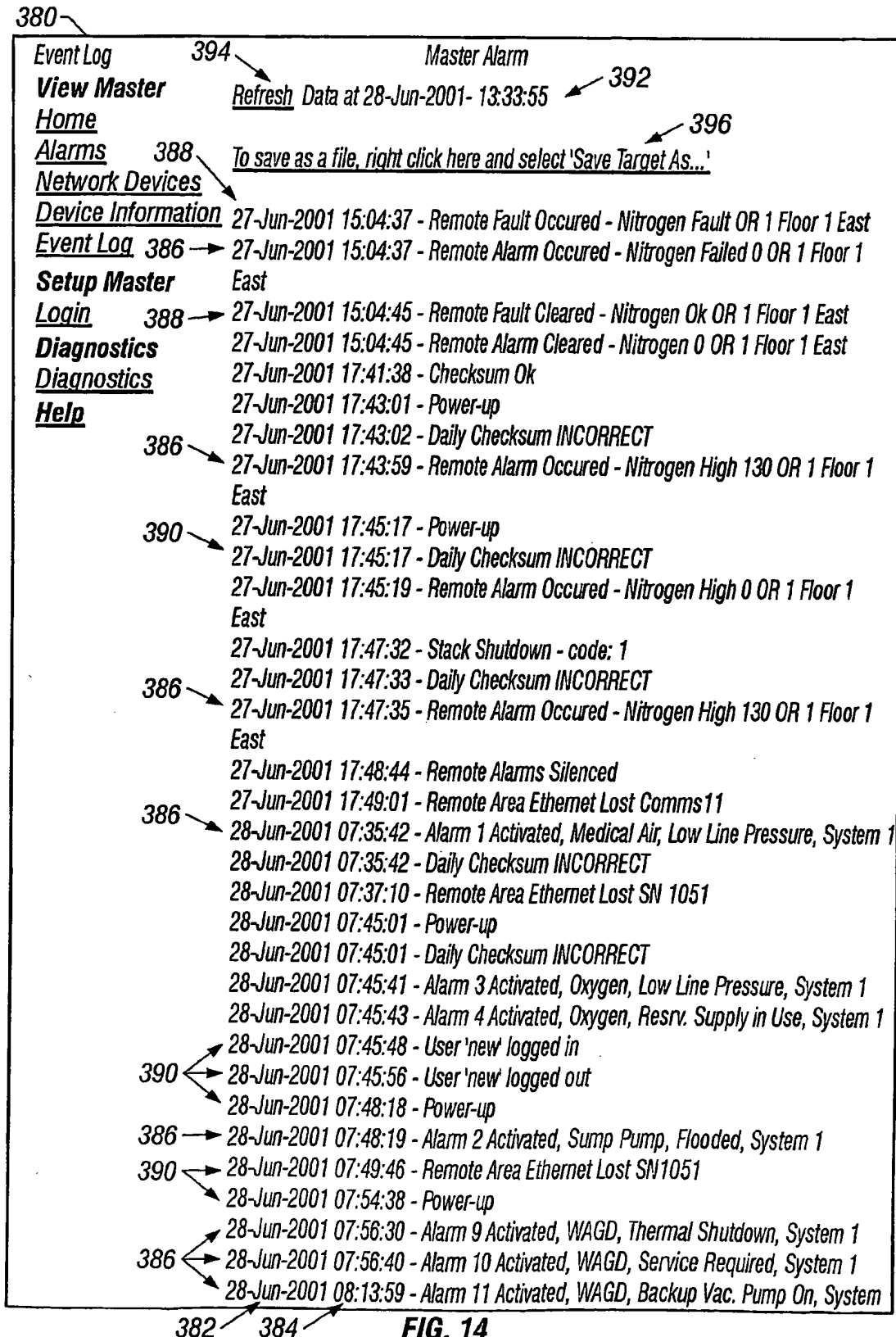


FIG. 14

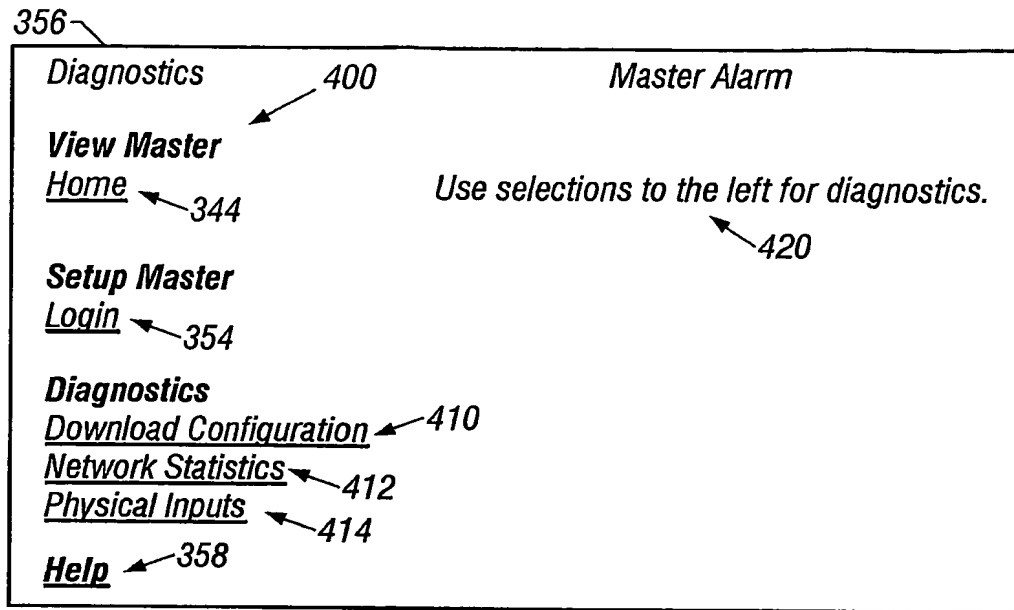


FIG. 15

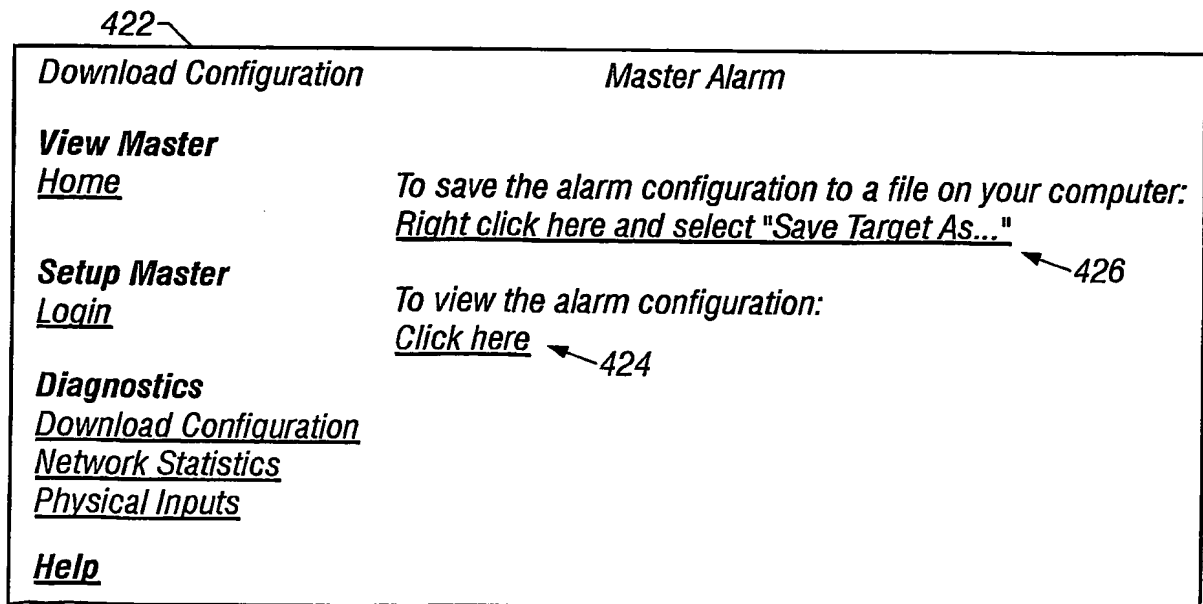


FIG. 16

428

*Master Alarm - Device Configuraton**Master Alarm Configuration Summary**Device Name - Master10013**Location - no location**Language - English**Alarm Silence - never**IP Addressing - DHCP, Auto IP, Fixed**Firmware version - 0.37*

432

430

*Alarm 1 - Medical Air, Low Line Pressure, led=1, sytem=1**Alarm 2 - Medical Air, Compressor Malfunc., led=1, sytem=1**Alarm 3 - Oxygen, Low Line Pressure, led=2, sytem=1**Alarm 4 - Oxygen, Resrv. Supply in Use, led=2, sytem=1**Alarm 5 - Oxygen, Low Line Pressure, led=2, sytem=2**Alarm 6 - Oxygen, Resrv. Supply in Use, led=2, sytem=2**Alarm7 - Medical Vacuum, Low Vacuum, led=3, sytem=1**Alarm8 - Medical Vacuum, Service Required, led=3, sytem=1**Alarm9 - WAGD, Thermal Shutdown, led=4, sytem=1**Alarm10 - WAGD, Service Required, led=4, sytem=1**Alarm11 - WAGD, Backup Vac. Pump On, led=4, sytem=1**Alarm12 - Unused**Alarm13 - Unused**Alarm14 - Unused**Alarm15 - Unused**Alarm16 - Unused**Alarm17 - Nitrous Oxide, Reserve Supply Low, led=3, sytem=5**Alarm18 - Unused**Alarm19 - Unused**Alarm20 - Unused**Alarm21 - Unused**Alarm22 - Unused**Alarm23 - Unused**Alarm24 - Unused**Alarm25 - Unused**Alarm26 - Unused**Alarm27 - Unused**Alarm28 - Unused**Alarm29 - Unused**Alarm30 - Unused***FIG. 17**

# REPLACEMENT SHEET

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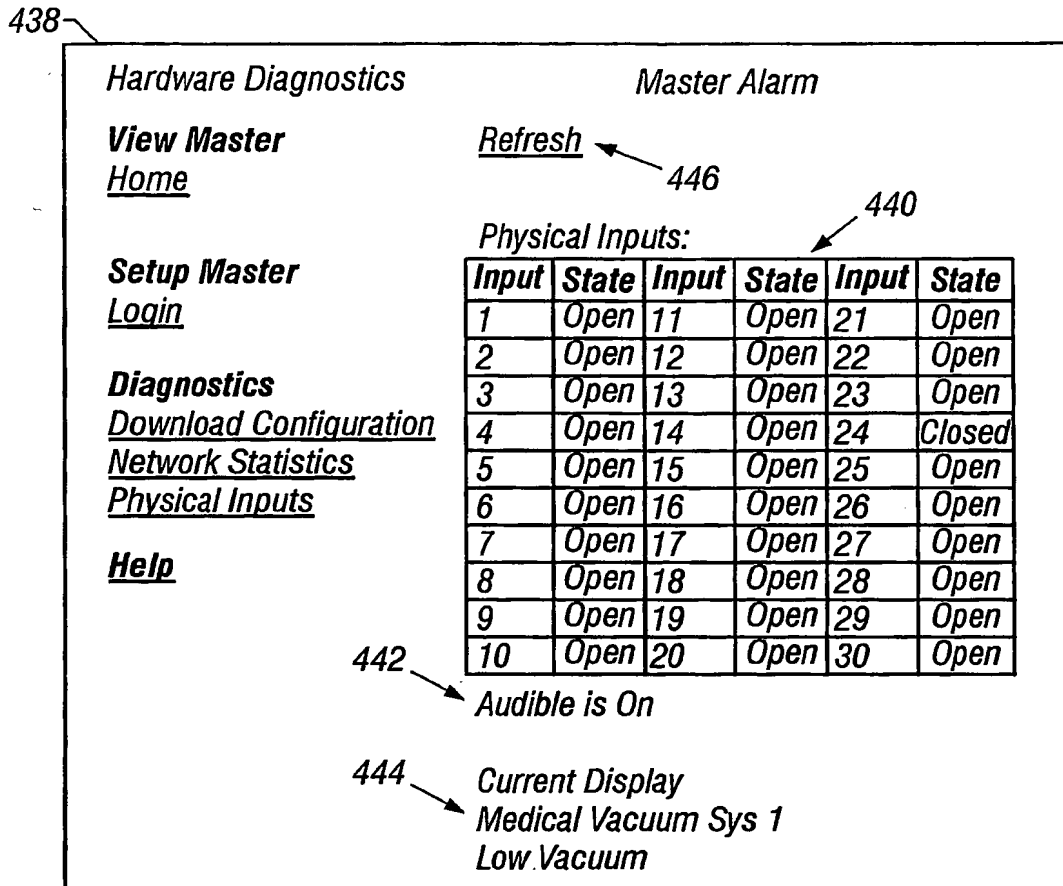
434

<b>Network Statistics</b>	436	<b>Master Alarm</b>
<b><u>View Master</u></b>	<b><u>Refresh</u></b>	
<b><u>Home</u></b>	<b>IP Address</b>	192.168.1.100
	<b>Subnet</b>	255.255.255.0
<b><u>Setup Master</u></b>	<b>Gateway</b>	192.168.1.1
<b><u>Login</u></b>	<b>Fixed IP Address</b>	192.168.1.1
	<b>Fixed Subnet</b>	255.0.0.0
<b><u>Diagnostics</u></b>	<b>Fixed Gateway</b>	0.0.0.0
<b><u>Download Configuration</u></b>	<b>Mac Address</b>	00:03:aa:00:00:13
<b><u>Network Statistics</u></b>	<b>Receives</b>	354
<b><u>Physical Inputs</u></b>	<b>Unicasts</b>	332
	<b>Multicasts</b>	0
<b><u>Help</u></b>	<b>Broadcasts</b>	22
	<b>Rx Errors</b>	0
	<b>Rx Missed</b>	0
	<b>Rx CRC Errors</b>	0
	<b>Rx Drops</b>	0
	<b>Transmits</b>	603
	<b>Buffer Defers</b>	0
	<b>Tx Errors</b>	0
	<b>Tx Collisions</b>	0
	<b>Tx Coll. Overflow</b>	0
	<b>Tx FILO Errors</b>	0
	<b>Traffic Backoffs</b>	0

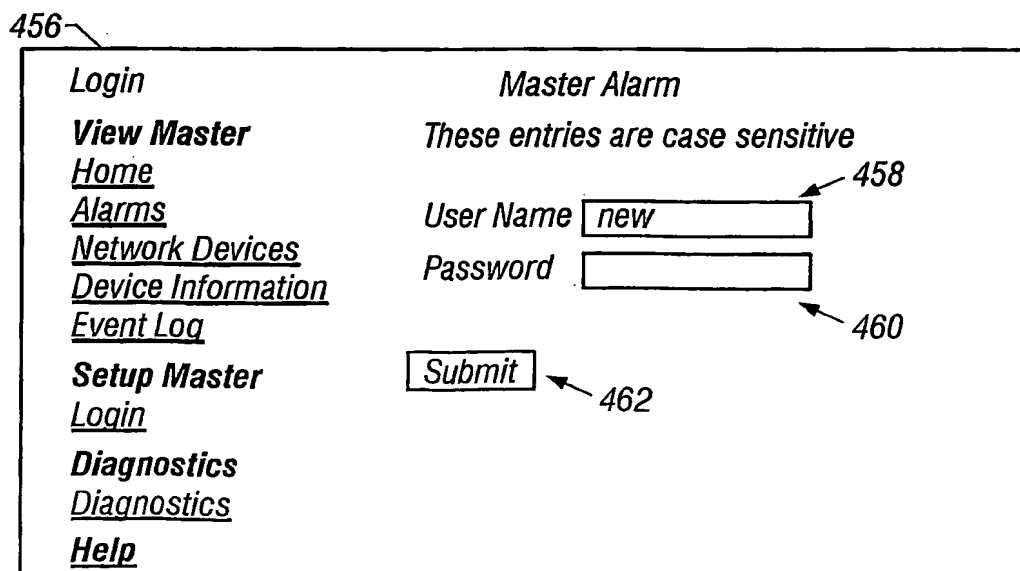
FIG. 18

# REPLACEMENT SHEET

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**FIG. 19**



**FIG. 20**

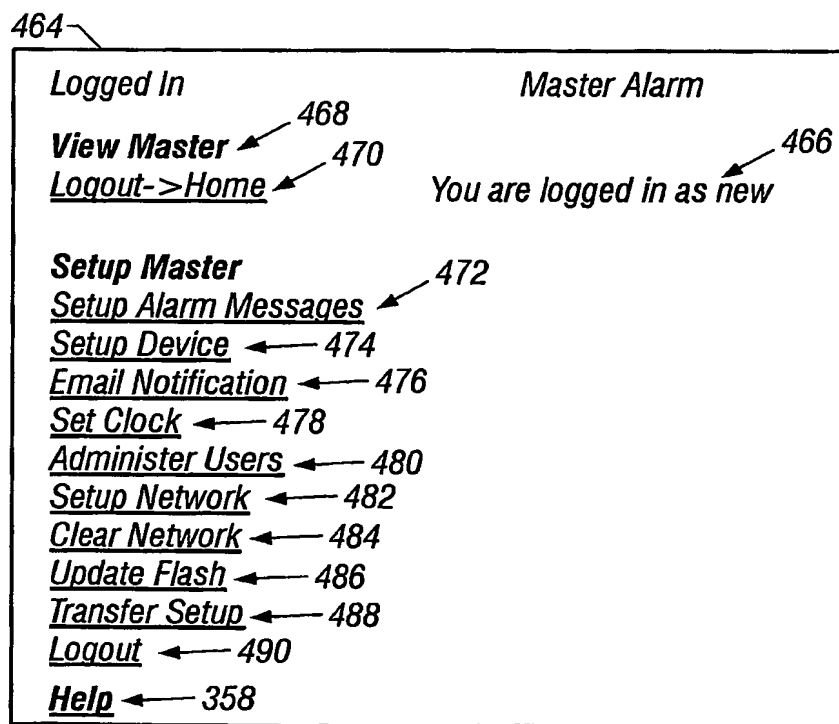


FIG. 21



# REPLACEMENT SHEET

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492

Alarm Message Setup		Master Alarm				
<b>View Master</b>		Click on a number to change an alarm message				
<u>Home</u>						
<b>Setup Master</b>	494	<b>Alarm</b>	<b>Gas Type</b>	<b>Message for</b>	<b>LED</b>	<b>System</b>
<u>Setup Alarm Messages</u>		<b>Input</b>		<b>Condition</b>		
<u>Setup Device</u>		<u>1</u>	Medical Air	Low Line Pressure	1	1
<u>Email Notification</u>		<u>2</u>	Medical Air	Compressor Malfunc.	1	1
<u>Set Clock</u>		<u>3</u>	Oxygen	Low Line Pressure	2	1
<u>Administer Users</u>		<u>4</u>	Oxygen	Resrv. Supply in Use	2	1
<u>Setup Network</u>		<u>5</u>	Oxygen	Low Line Pressure	2	2
<u>Clear Network</u>		<u>6</u>	Oxygen	Resrv. Supply in Use	2	2
<u>Update Flash</u>		<u>7</u>	Medical	Low Vacuum	3	1
<u>Transfer Setup</u>			Vacuum			
<b>Help</b>		<u>8</u>	Medical	Service Required	3	1
			Vacuum			
		<u>9</u>	WAGD	Thermal Shutdown	4	1
		<u>10</u>	WAGD	Service Required	4	1
		<u>11</u>	WAGD	Backup Vac. Pump Low	4	1
		<u>12</u>	Unused	Unused	0	1
		<u>13</u>	Unused	Unused	0	1
	494	<u>14</u>	Unused	Unused	0	1
		<u>15</u>	Unused	Unused	0	1
		<u>16</u>	Unused	Unused	0	1
	494	<u>17</u>	Nitrous Oxide	Reserve Supply Low	3	5
		<u>18</u>	Unused	Unused	0	1
		<u>19</u>	Unused	Unused	0	1
		<u>20</u>	Unused	Unused	0	1
		<u>21</u>	Unused	Unused	0	1
		<u>22</u>	Unused	Unused	0	1
		<u>23</u>	Unused	Unused	0	1
		<u>24</u>	Unused	Unused	0	1
		<u>25</u>	Unused	Unused	0	1
		<u>26</u>	Unused	Unused	0	1
		<u>27</u>	Unused	Unused	0	1
		<u>28</u>	Unused	Unused	0	1
		<u>29</u>	Unused	Unused	0	1
	494	<u>30</u>	Unused	Unused	0	1

FIG. 22

# REPLACEMENT SHEET

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496

**Setup Alarm Messages Step 2**

**Master Alarm**

**View Master**  
Logout->Home

**Setup Master**  
Setup Alarm Messages  
Setup Device  
Email Notification  
Set Clock  
Administer Users  
Setup Network  
Clear Network  
Update Flash  
Transfer Setup  
Logout  
Help

Select the Gas Type that is wired to input 17

498

Gas Type  512

LED 500  512

System 510  512

514

FIG. 23

516

**Setup Alarm Messages Step 3**

**Master Alarm**

**View Master**  
Logout->Home

**Setup Master**  
Setup Alarm Messages  
Setup Device  
Email Notification  
Set Clock  
Administer Users  
Setup Network  
Clear Network  
Update Flash  
Transfer Setup  
Logout  
Help

Alarm Number	17
Gas Type	Nitrous Oxide
LED Number	3
System Number	5
Alarm message for this input	<input type="text" value="Reserve Supply Low"/> 520

518

522

FIG. 24

# REPLACEMENT SHEET

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524

Setup Alarm Messages Final		Master Alarm
<b>View Master</b>	Changes complete	
<u>Logout-&gt;Home</u>	Input Number	17
	Gas Type	Nitrous Oxide
<b>Setup Master</b>	Alarm Message	Reserve Supply Low
<u>Setup Alarm Messages</u>	LED Number	3
<u>Setup Device</u>	System Number	5
<u>Email Notification</u>		
<u>Set Clock</u>		
<u>Administer Users</u>		
<u>Setup Network</u>	<u>Return to Alarm Messages</u>	525
<u>Clear Network</u>		
<u>Update Flash</u>		
<u>Transfer Setup</u>		
<u>Logout</u>		
<u>Help</u>		

FIG. 25

526

Setup Device		Master Alarm
<b>View Master</b>		
<u>Logout-&gt;Home</u>		
<b>Setup Master</b>	Device Name	528 Master10013
<u>Setup Alarm Messages</u>	Location	530 PBX 532
<u>Setup Device</u>	Zone	534 1
<u>Email Notification</u>	Floor	536 1
<u>Set Clock</u>	Direction	538 South 540
<u>Administer Users</u>	Silenced return time	542 never 544
<u>Setup Network</u>		
<u>Clear Network</u>		
<u>Update Flash</u>		
<u>Transfer Setup</u>		
<u>Logout</u>	544 Submit	546 Reset
<u>Help</u>		

FIG. 26

# REPLACEMENT SHEET

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<b>Device Setup Accepted</b>	<b>Master Alarm</b>
<b>View Master</b>	
<u>Logout-&gt;Home</u>	
<b>Setup Master</b>	
<u>Setup Alarm Messages</u>	
<u>Setup Device</u>	
<u>Email Notification</u>	
<u>Set Clock</u>	
<u>Administer Users</u>	
<u>Setup Network</u>	
<u>Clear Network</u>	
<u>Update Flash</u>	
<u>Transfer Setup</u>	
<u>Logout</u>	
<u>Help</u>	

Changes to device setup were accepted  
550

FIG. 27

552

<b>Email Notification</b>	<b>Master Alarm</b>
<b>View Master</b>	SMTP Server Name 554 <input type="text" value="smtp.hospital.com"/> Example: smtp.hospital.com
<u>Home</u>	SMTP Server Address 556 <input type="text"/> Alternate name to name: NNN.NNN.NNN.NNN
<b>Setup Master</b>	Email Address 1 558 <input type="text" value="FacilityEngineer@hospital.com"/> Example: joe_service@hospital.com
<u>Setup Alarm Messages</u>	Email Address 2 560 <input type="text" value="2125554444@pager.com"/> Leave blank if unused
<u>Setup Device</u>	Email Address 3 <input type="text"/> Leave blank if unused
<u>Email Notification</u>	
<u>Set Clock</u>	
<u>Administer Users</u>	
<u>Setup Network</u>	
<u>Clear Network</u>	
<u>Update Flash</u>	
<u>Transfer Setup</u>	
	564 <input type="button" value="Submit"/> 566 <input type="button" value="Reset"/> 562
<u>Help</u>	563

The SMTP Server Address has priority over the SMTP Server Name.  
To use the SMTP Server Name leave the SMTP Server Address blank.  
The SMTP Server Name requires a DNS look-up.  
Alarms that occur before the Server Name is resolved are not sent.

FIG. 28

# REPLACEMENT SHEET

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568

Email Changes Accepted

Master Alarm

570

**View Master**  
Home

**Setup Master**  
Setup Alarm Messages  
Setup Device  
Email Notification  
Set Clock  
Administer Users  
Setup Network  
Clear Network  
Update Flash  
Transfer Setup

Help

SMTP Server Name	smtp.hospital.com
SMTP Server Address	
Email Address 1	FacilityEngineer@hospital.com
Email Address 2	2125554444@pager.com
Email Address 3	

FIG. 29

572

Set Clock

Master Alarm

574

**View Master**  
Home

**Setup Master**  
Setup Alarm Messages  
Setup Device  
Email Notification  
Set Clock  
Administer Users  
Setup Network  
Clear Network  
Update Flash  
Transfer Setup

Help

Current Time: 26-Jul-2001 10:54:27

Year	576	2001	588
Month	578	Jul	588
Date	580	26	588
Hour	582	10	588
Minute	584	54	588
Second	586	27	588

590 Submit 592 Reset

FIG. 30

# REPLACEMENT SHEET

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594

*Clock Accepted*

**Master Alarm**

**View Master**  
**Home**

**Setup Master**  
**Setup Alarm Messages**  
**Setup Device**  
**Email Notification**  
**Set Clock**  
**Administer Users**  
**Setup Network**  
**Clear Network**  
**Update Flash**  
**Transfer Setup**

**Help**

596 →  
*Changes were accepted*

*The clock is now set to 26-Jul-2001 10:54:27*

**FIG. 31**

598

**User Administration**

**Master Alarm**

**View Master**  
**Logout->Home**

**Setup Master**  
**Setup Alarm Messages**  
**Setup Device**  
**Email Notification**  
**Set Clock**  
**Administer Users**  
**Setup Network**  
**Clear Network**  
**Update Flash**  
**Transfer Setup**  
**Logout**  
**Help**

*These entries are case sensitive*

	<b>User Name</b>	<b>Password</b>
User 1 Name	<input type="text" value="new"/>	<input type="text"/>
User 2 Name	<input type="text"/>	<input type="text"/>
User 3 Name	<input type="text"/>	<input type="text"/>

600 → 610 →

612 → 614 →

**FIG. 32**

# REPLACEMENT SHEET

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616

<i>User Name Changes Accepted</i>	<i>Master Alarm</i>
<i><b>View Master Home</b></i>	<i>Changes to user name and password were accepted</i>
<i><b>Setup Master</b></i>	
<i><u>Setup Alarm Messages</u></i>	
<i><u>Setup Device</u></i>	
<i><u>Email Notification</u></i>	
<i><u>Set Clock</u></i>	
<i><u>Administer Users</u></i>	
<i><u>Setup Network</u></i>	
<i><u>Clear Network</u></i>	
<i><u>Update Flash</u></i>	
<i><u>Transfer Setup</u></i>	
<i><u>Help</u></i>	

**FIG. 33**

618

Network Settings 620

Master Alarm

View Master

Logout->Home

Current Settings: IP address: 192.168.1.100 Subnet mask: 255.255.255.0

IP Addressing

Choose the method for this hosts IP address assignment.

622

624

626

628

Try DHCP server, then try Auto IP, finally use fixed IP address

Try DHCP server, then use fixed IP address

Try AutoIP, then use fixed IP address

Use fixed IP address always

Fixed IP address 192.168.1.1 630

Fixed subnet mask 255.0.0.0 632

Fixed gateway 0.0.0.0 634

Name Resolution

If you would like to refer to this device by host name 'Master10013' in addition to the IP address '192.168.1.100' you need a method of resolving names to IP addresses.

636

638

640

Submit

Reset

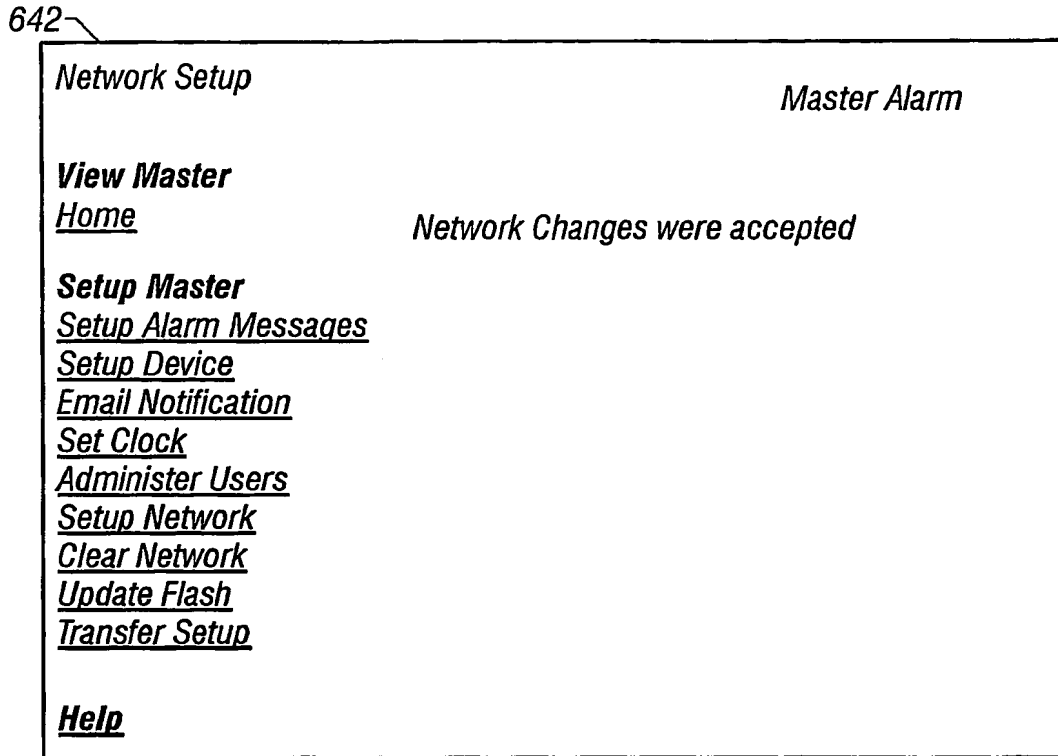
Use NetBios Name Service to resolve Host names (WINS). This allows hosts to discover each other. Be aware that it uses a few broadcast messages. This option works well for a network with no administrated servers.

FIG. 34

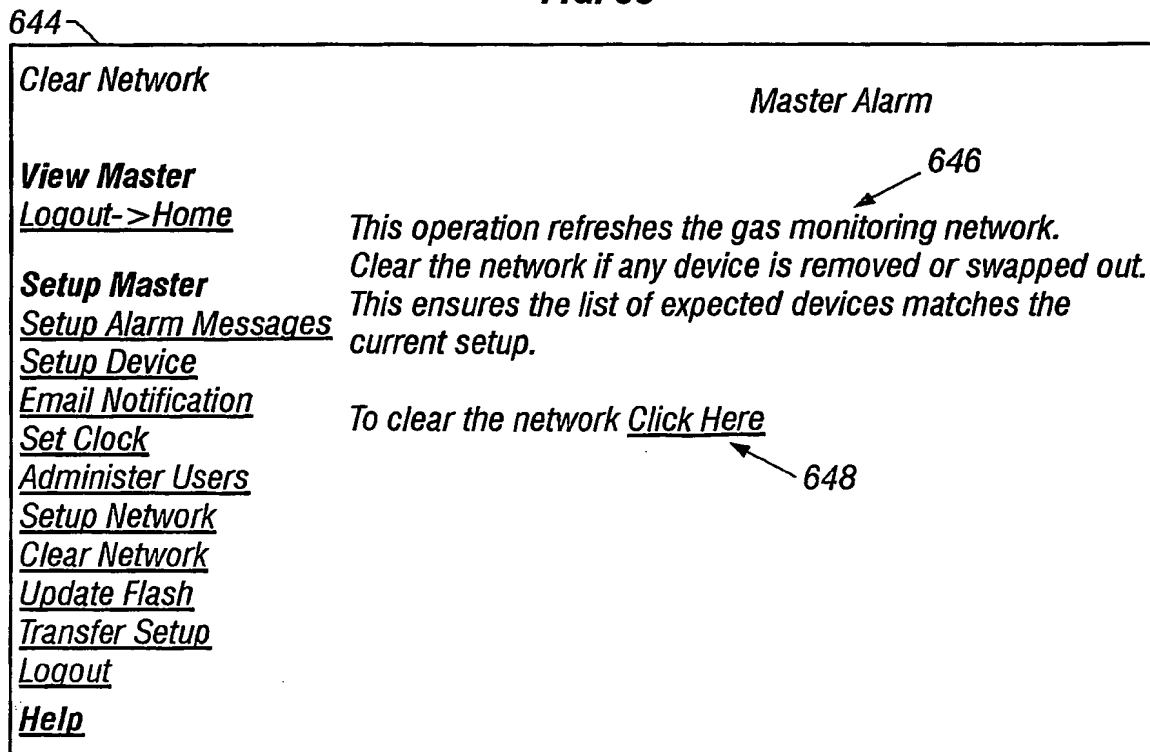


# REPLACEMENT SHEET

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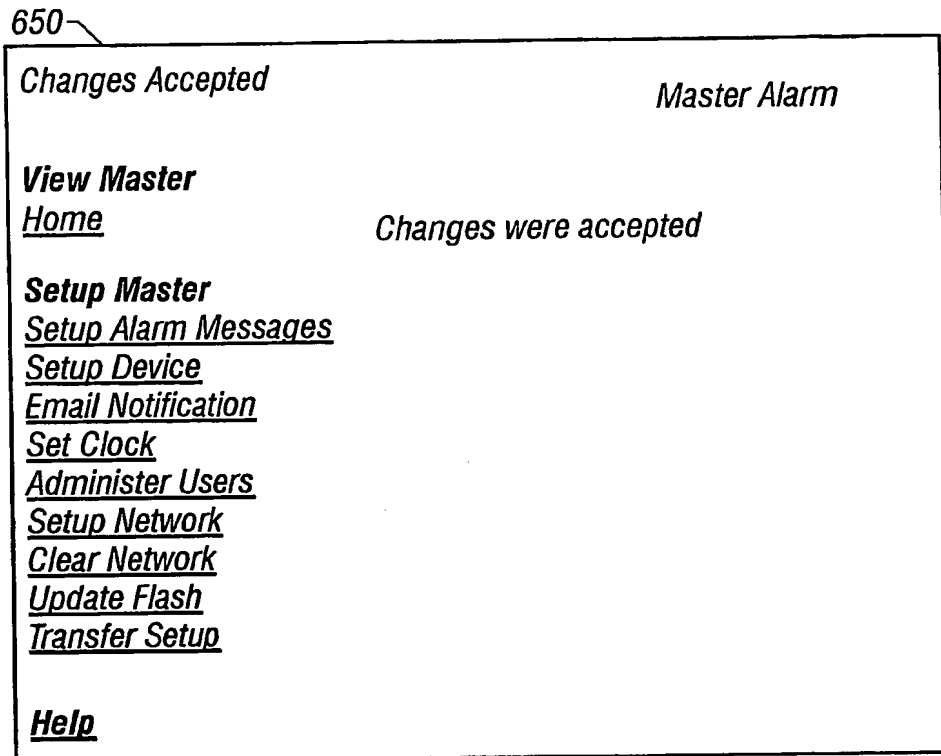
**FIG. 35**



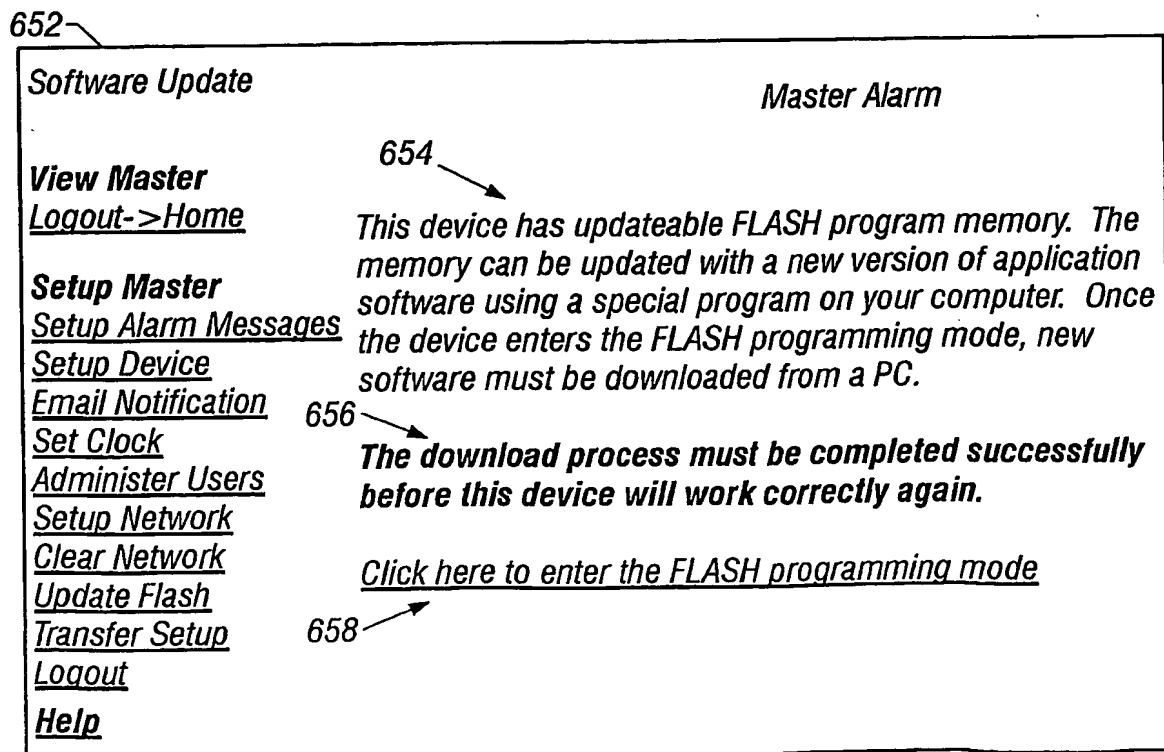
**FIG. 36**

# REPLACEMENT SHEET

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**FIG. 37**



**FIG. 38**

# REPLACEMENT SHEET

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660

Verify FLASH Download Mode

Master Alarm

**View Master**  
Home

**Setup Master**  
Setup Alarm Messages  
Setup Device  
Email Notification  
Set Clock  
Administer Users  
Setup Network  
Clear Network  
Update Flash  
Transfer Setup

**Help**

Verify your intention

Once FLASH programming mode is entered the device will not operate as an alarm system until the download is successfully complete.

Click here to confirm entering FLASH programming mode

662

FIG. 39

664

Configuration Transfer

Master Alarm

**View Master**  
Logout->Home

**Setup Master**  
Setup Alarm Messages  
Setup Device  
Email Notification  
Set Clock  
Administer Users  
Setup Network  
Clear Network  
Update Flash  
Transfer Setup  
Logout  
**Help**

The configuration from this device can be transferred to another master over the network.

To transfer the configuration from this Master Alarm to another, click on the master below.

This Master Alarm is:  
**Master10013 (192.168.1.100) PBX1 Floor 1 South**

Transfer configuration to:  
**No other Masters Alarms were found**

666

668

670

FIG. 40

# REPLACEMENT SHEET

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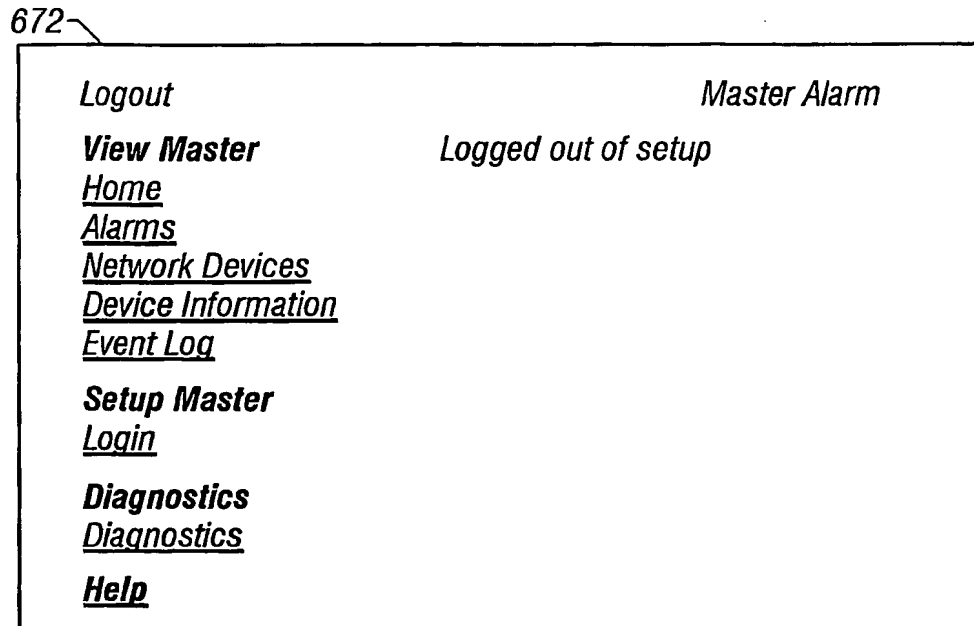


FIG. 41

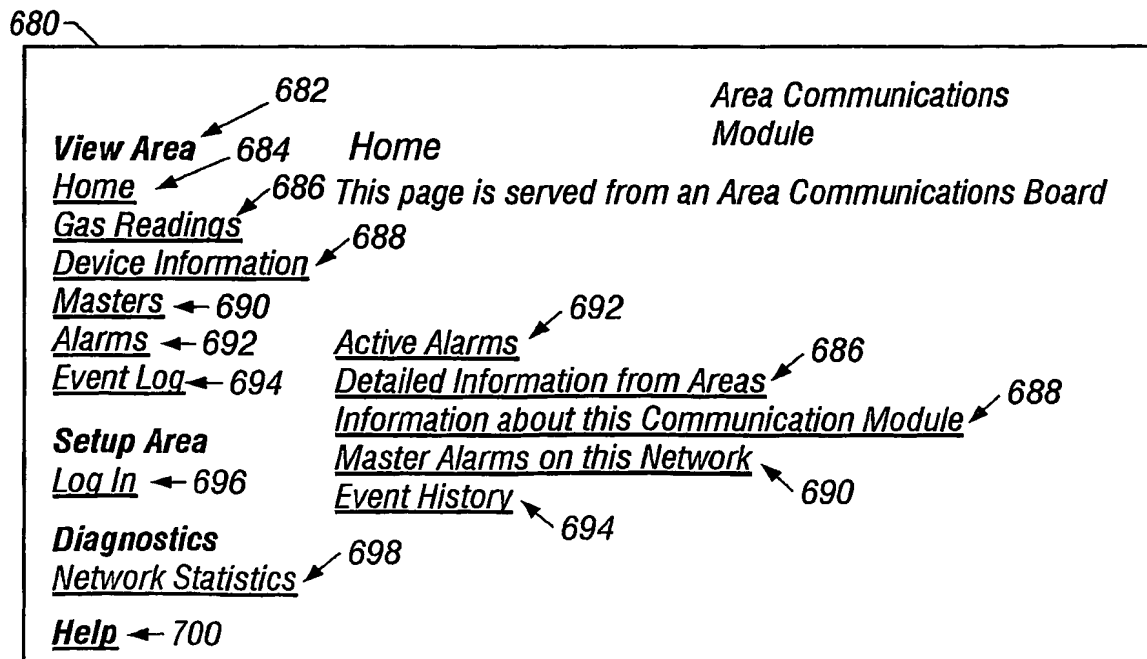


FIG. 42

# REPLACEMENT SHEET

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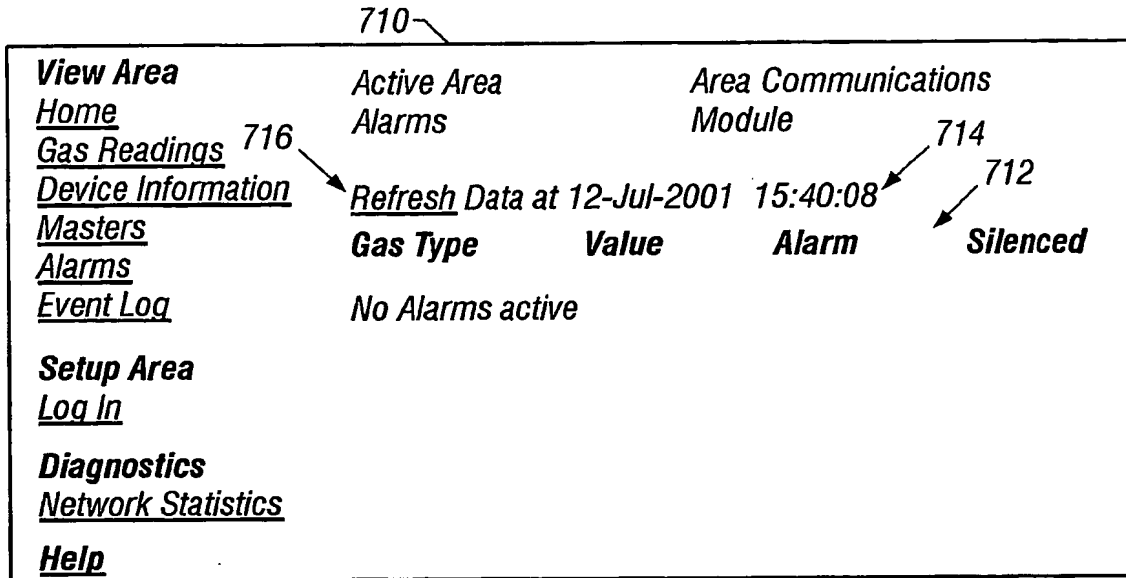


FIG. 43

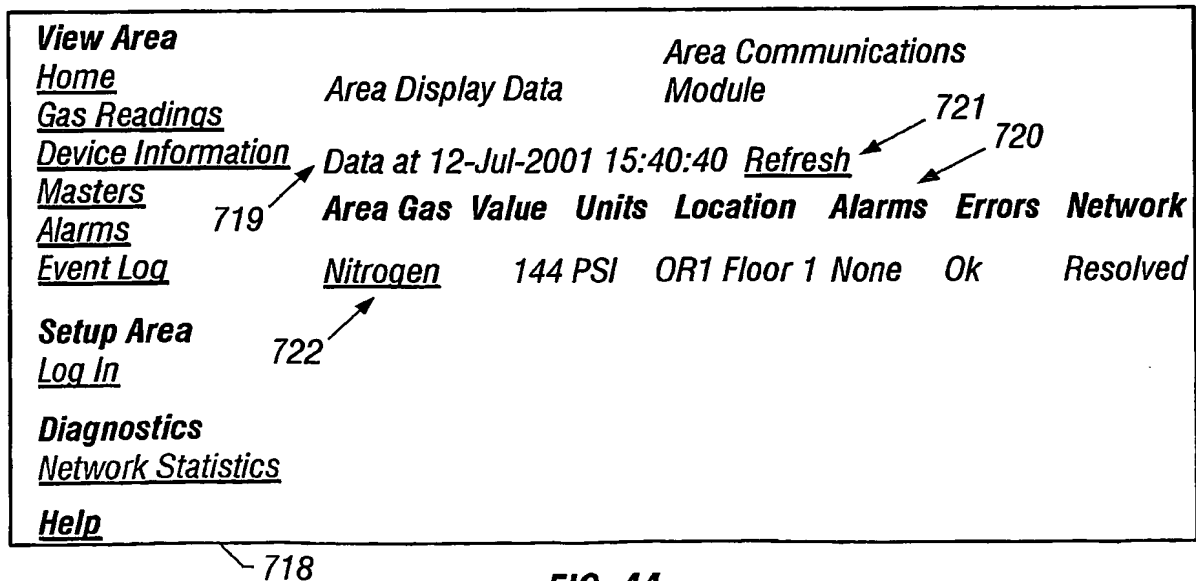
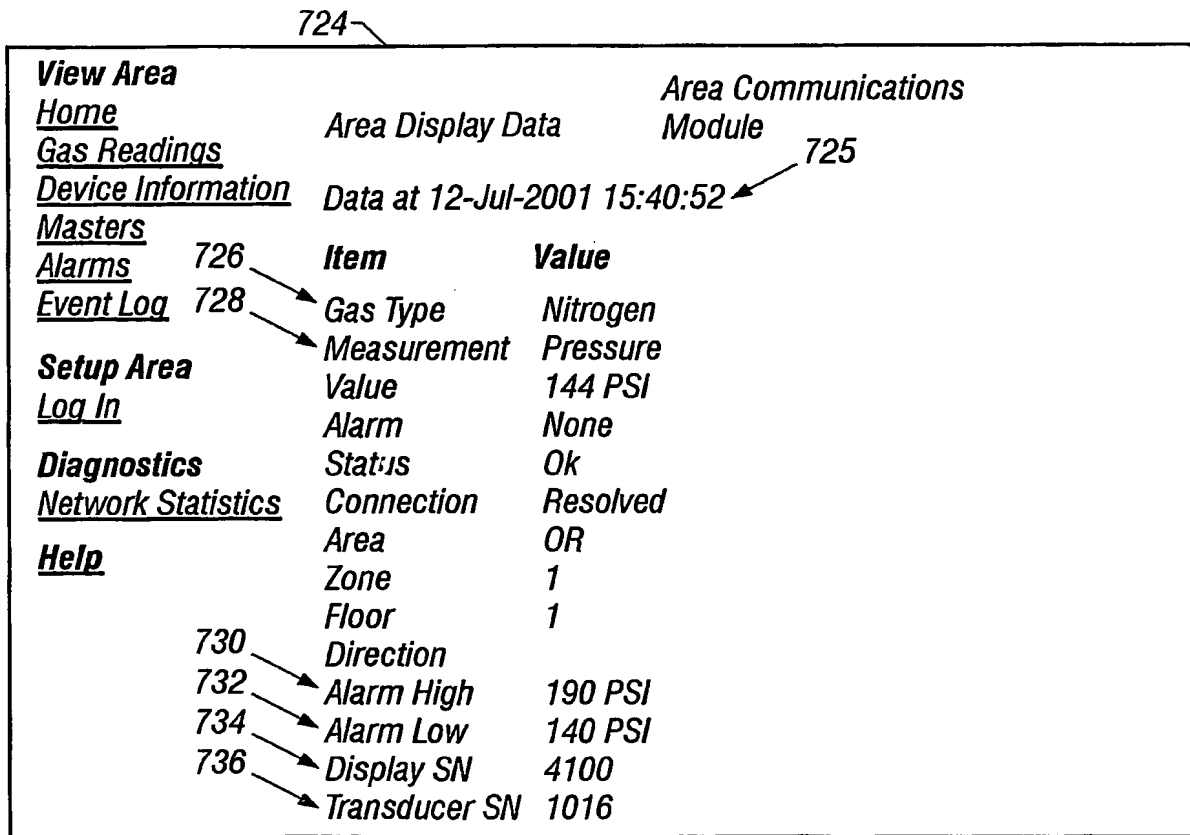


FIG. 44

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**FIG. 45**

# REPLACEMENT SHEET

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<b>View Area</b>		
<u>Home</u>		
<u>Gas Readings</u>		
<u>Device Information</u>	Device Info	Area Communications Module
<u>Masters</u>		
<u>Alarms</u>	Type:	Area Communications Module
<u>Event Log</u>	Serial Number:	1051
	Model Number:	HRCM-0000-0000
<b>Setup Area</b>	Software Version:	0:37
<u>Log In</u>	Software Build:	018
<b>Diagnostics</b>	Current Time:	12-Jul-2001 15:41:20
<u>Network Statistics</u>	Date Code:	Week 7, 2001
<u>Help</u>	Name:	Comms11
	Area:	OR
	Zone:	1
	Floor:	1
	Direction:	East
	IP Address:	192.168.1.200
	MAC Address:	00:03:aa:00:00:11

FIG. 46

738

740

<b>View Area</b>		
<u>Home</u>		
<u>Gas Readings</u>	Masters	Area Communications Module
<u>Device Information</u>	<u>Refresh</u> Data at 12-Jul-2001 15:41:38	
<u>Masters</u>	Master	Details
<u>Alarms</u>		
<u>Event Log</u>	Master10013	
<b>Setup Area</b>		
<u>Log In</u>	744	
<b>Diagnostics</b>		
<u>Network Statistics</u>		
<u>Help</u>		

742 Location PBX

FIG. 47

# REPLACEMENT SHEET

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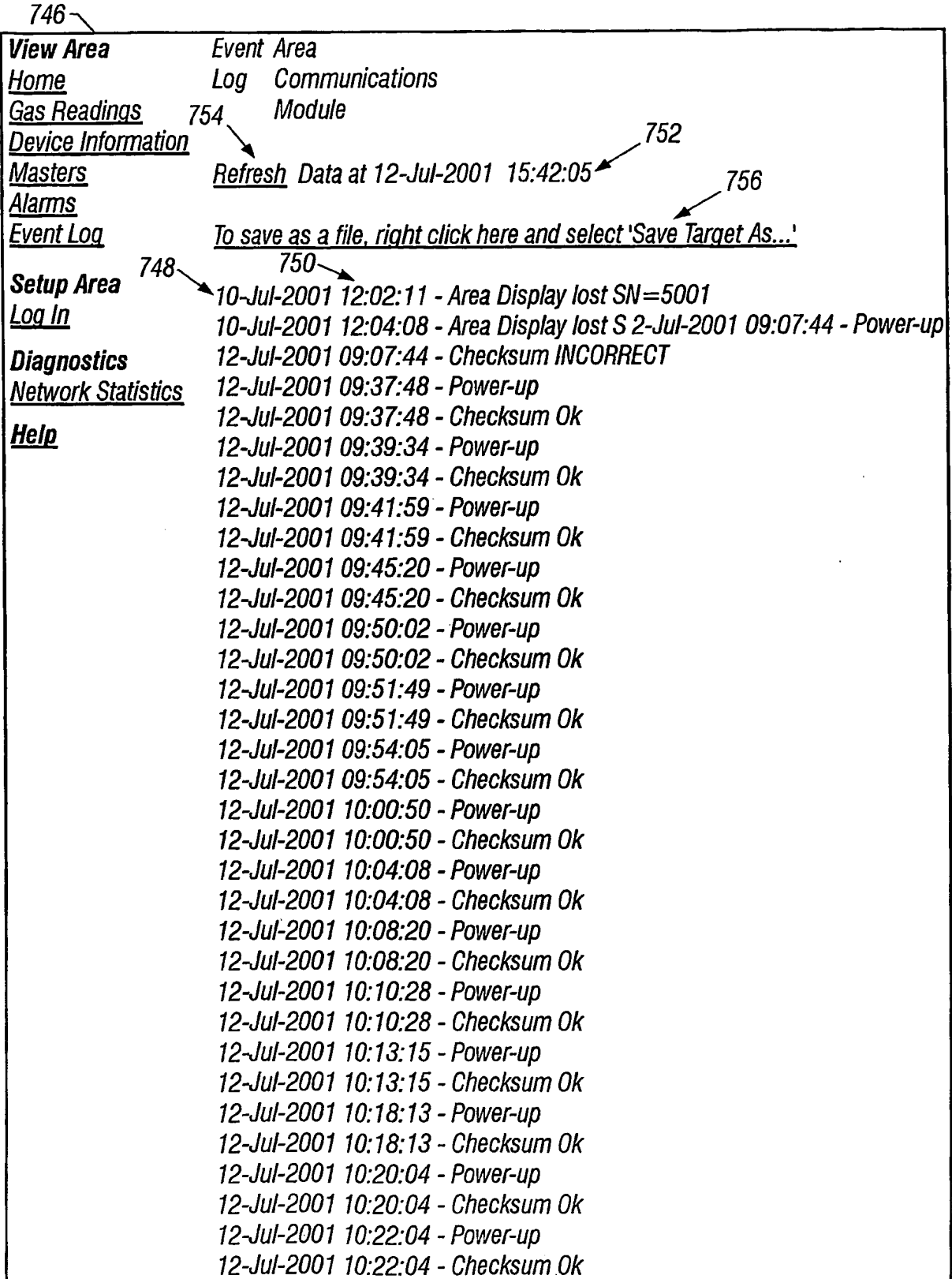


FIG. 48



# REPLACEMENT SHEET

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<b>View Area</b>	<b>Login</b>	<b>Area Communications</b>
<u>Home</u>		<b>Module</b>
<u>Gas Readings</u>		
<u>Device Information</u>	These entries are case sensitive	
<u>Masters</u>		
<u>Alarms</u>		
<u>Event Log</u>		
<b>Setup Area</b>	User Name <input type="text" value="new"/>	760
<u>Log In</u>	Password <input type="text"/>	762
<b>Diagnostics</b>		
<u>Network Statistics</u>		
<u>Help</u>	<input type="button" value="Submit"/>	764

758

FIG. 49

<b>View Area</b>	<b>Login Status</b>	<b>Area Communications</b>
<u>Home</u>		<b>Module</b>
<u>Gas Readings</u>		
<u>Device Information</u>	You are logged in as new	768
<u>Masters</u>		
<u>Alarms</u>		
<u>Event Log</u>		
<b>Setup Area</b>		
<u>Setup Device</u>		772
<u>Setup Network</u>		774
<u>Set Clock</u>		776
<u>Administrate Users</u>		778
<u>Update Flash</u>		
<u>Log Out</u>		780
<b>Diagnostics</b>		782
<u>Network Statistics</u>		
<u>Help</u>		

FIG. 50

# REPLACEMENT SHEET

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786

<b>View Area</b> <a href="#">Home</a> <a href="#">Gas Readings</a> <a href="#">Device Information</a> <a href="#">Masters</a> <a href="#">Alarms</a> <a href="#">Event Log</a> <b>Setup Area</b> <a href="#">Setup Device</a> <a href="#">Setup Network</a> <a href="#">Set Clock</a> <a href="#">Administrate Users</a> <a href="#">Update Flash</a> <a href="#">Log Out</a> <b>Diagnostics</b> <a href="#">Network Statistics</a> <a href="#">Help</a>	<b>Device Settings</b> Device Name <input type="text" value="Comms11"/> 788 Location Area <input type="text" value="OR"/> 791 Location Zone <input type="text" value="1"/> 796 Location Floor <input type="text" value="1"/> 792 Location Direction <input type="text" value="East"/> 795 <input type="button" value="Submit"/> 798 <input type="button" value="Reset"/> 800	<b>Area Communications Module</b>
--	--	-----------------------------------

790

FIG. 51

810

<b>View Area</b> <a href="#">Home</a> <a href="#">Gas Readings</a> <a href="#">Device Information</a> <a href="#">Masters</a> <a href="#">Alarms</a> <a href="#">Event Log</a> <b>Setup Area</b> <a href="#">Setup Device</a> <a href="#">Setup Network</a> <a href="#">Set Clock</a> <a href="#">Administrate Users</a> <a href="#">Update Flash</a> <a href="#">Log Out</a> <b>Diagnostics</b> <a href="#">Network Statistics</a> <a href="#">Help</a>	<b>Device Setup Results</b> Changes to device setup where accepted 812	<b>Area Communications Module</b>
--	--	-----------------------------------

FIG. 52

View Area	Network Settings	Area Communications
<u>Home</u>		Module
<u>Gas Readings</u>		
<u>Device Information</u>	Current Settings: IP address: 192.168.1.200 Subnet mask: 255.255.255.0	
<u>Masters</u>		
<u>Alarms</u>		
<u>Event Log</u>		
<b>Setup Area</b>		
<u>Setup Device</u>		
<u>Setup Network</u>		
<u>Set Clock</u>		
<u>Administrate Users</u>		
<u>Update Flash</u>		
<u>Log Out</u>		
<b>Diagnostics</b>		
<u>Network Statistics</u>		
<u>Help</u>		

816 →

**IP Addressing**

Choose the method for this hosts IP address assignment.

818 → ☒ Try DHCP server, then try Auto IP, finally use fixed IP address

820 → ☐ Try DHCP server, then use fixed IP address

822 → ☐ Try AutoIP, then use fixed IP address

824 → ☐ Use fixed IP address always

Fixed IP address  826

Fixed subnet mask  828

Fixed gateway  830

**Name Resolution**

If you would like to refer to this device by host name 'Comms11' in addition to the IP address '192.168.1.200' you need a method of resolving names to IP addresses.

832 → ☒ Use NetBios Name Service to resolve Host names (WINS). This allows hosts to discover each other. Be aware that it uses a few broadcast messages. This option works well for a network with no administrated servers.

834 →   836

814 ✓

FIG. 53

# REPLACEMENT SHEET

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838

<b>View Area</b>	<b>Area Display - Network Setup Result</b>
<u>Home</u>	
<u>Gas Readings</u>	
<u>Device Information</u>	
<u>Masters</u>	
<u>Alarms</u>	Changes to the network setup where accepted
<u>Event Log</u>	
<b>Setup Area</b>	
<u>Setup Device</u>	
<u>Setup Network</u>	
<u>Set Clock</u>	
<u>Administrate Users</u>	
<u>Update Flash</u>	
<u>Log Out</u>	
<b>Diagnostics</b>	
<u>Network Statistics</u>	
<u>Help</u>	

FIG. 54

<b>View Area</b>	<b>Set Clock</b>	<b>Area Communications Module</b>
<u>Home</u>		
<u>Gas Readings</u>		
<u>Device Information</u>		
<u>Masters</u>		
<u>Alarms</u>		
<u>Event Log</u>		
<b>Setup Area</b>		
<u>Setup Device</u>		
<u>Setup Network</u>		
<u>Set Clock</u>		
<u>Administrate Users</u>		
<u>Update Flash</u>		
<u>Log Out</u>		
<b>Diagnostics</b>		
<u>Network Statistics</u>		
<u>Help</u>		

Current Time: 12-Jul-2001 15:47:02 ← 842

Year	844	2001	856
Month	846	July	856
Date	848	12	856
Hour	850	15	856
Minute	852	47	856
Second	854	2	856

858

Submit	Reset	860
--------	-------	-----

FIG. 55

840

# REPLACEMENT SHEET

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862

<b>View Area</b> <u>Home</u> <u>Gas Readings</u> <u>Device Information</u> <u>Masters</u> <u>Alarms</u> <u>Event Log</u>  <b>Setup Area</b> <u>Setup Device</u> <u>Setup Network</u> <u>Set Clock</u> <u>Administrate Users</u> <u>Update Flash</u> <u>Log Out</u>  <b>Diagnostics</b> <u>Network Statistics</u>  <u>Help</u>	<u>Area Comms - Change Result</u>  Changes were accepted 864 The clock is now set to 12-Jul-2001 15:47:02
--	--

FIG. 56

<b>View Area</b> <u>Home</u> <u>Gas Readings</u> <u>Device Information</u> <u>Masters</u> <u>Alarms</u> <u>Event Log</u>  <b>Setup Area</b> <u>Setup Device</u> <u>Setup Network</u> <u>Set Clock</u> <u>Administrate Users</u> <u>Update Flash</u> <u>Log Out</u>  <b>Diagnostics</b> <u>Network Statistics</u>  <u>Help</u>	<b>User Administration</b>  These entries are case sensitive 868 User Name      Password 870 User 1 Name <input type="text" value="new"/> <input type="text"/> User 2 Name <input type="text"/> <input type="text"/> User 3 Name <input type="text"/> <input type="text"/>  <input type="button" value="Submit"/> <input type="button" value="Reset"/> 872                              874	<b>Area Communications Module</b>
--	---	-----------------------------------

866

FIG. 57

# REPLACEMENT SHEET

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876

<b>View Area</b>	<b>Change User Info</b>	<b>Area Communications</b>
<u>Home</u>	<b>Result</b>	<b>Module</b>
<u>Gas Readings</u>		
<u>Device Information</u>		
<u>Masters</u>		
<u>Alarms</u>	<i>Changes to user name and password were accepted</i>	
<u>Event Log</u>		
<b>Setup Area</b>		
<u>Setup Device</u>		
<u>Setup Network</u>		
<u>Set Clock</u>		
<u>Administrate Users</u>		
<u>Update Flash</u>		
<u>Log Out</u>		
<b>Diagnostics</b>		
<u>Network Statistics</u>		
<b>Help</b>		

FIG. 58

<b>View Area</b>	<b>Flash Download</b>	<b>Area Communications</b>
<u>Home</u>		<b>Module</b>
<u>Gas Readings</u>	880	
<u>Device Information</u>	↓	
<u>Masters</u>	<i>This device has updateable FLASH program memory. The memory can be updated with a new version of application software using a special program on your computer. Once the device enters the FLASH programming mode, new software must be downloaded from a PC.</i>	
<u>Alarms</u>		882
<u>Event Log</u>		←
<b>Setup Area</b>		
<u>Setup Device</u>		
<u>Setup Network</u>		
<u>Set Clock</u>		
<u>Administrate Users</u>		
<u>Update Flash</u>		
<u>Log Out</u>		
<b>Diagnostics</b>		
<u>Network Statistics</u>		
<b>Help</b>		

*The download process must be completed successfully before this device will work correctly again.*

Click here to enter the FLASH programming mode

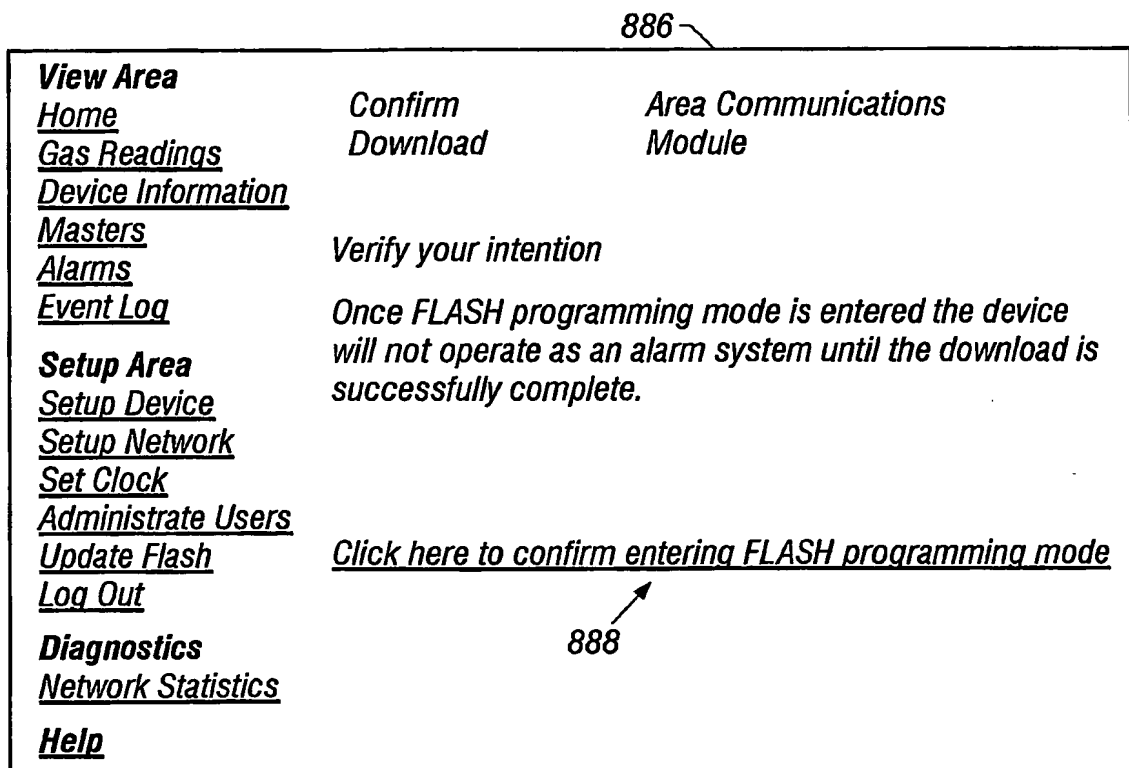
884

878

FIG. 59

# REPLACEMENT SHEET

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**FIG. 60**

# REPLACEMENT SHEET

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<b><u>View Area</u></b>	<b>Communications</b>	<b>Area Communications</b>
<b><u>Home</u></b>	<b>Statistics</b>	<b>Module</b>
<b><u>Gas Readings</u></b>	<b><u>Ethernet Refresh</u></b> ← 896	← 892
<b><u>Device Information</u></b>	IP Address	192.168.1.200
<b><u>Masters</u></b>	Subnet	255.255.255.0
<b><u>Alarms</u></b>	Gateway	192.168.1.1
<b><u>Event Log</u></b>	Fixed IP Address	0.0.0.0
<b><u>Setup Area</u></b>	Fixed Subnet	0.0.0.0
<b><u>Setup Device</u></b>	Fixed Gateway	0.0.0.0
<b><u>Setup Network</u></b>	Mac Address	00:03:aa:00:00:11
<b><u>Set Clock</u></b>	Receives	662
<b><u>Administrate Users</u></b>	Unicasts	590
<b><u>Update Flash</u></b>	Multicasts	0
<b><u>Log Out</u></b>	Broadcasts	72
<b><u>Diagnostics</u></b>	Rx Errors	0
<b><u>Network Statistics</u></b>	Rx Missed	0
	Rx CRC Errors	0
	Rx Drops	0
<b><u>Help</u></b>	Transmits	705
	Buffer Defers	0
	Tx Errors	0
	Tx Collisions	0
	Tx Coll. Overflow	0
	Tx FILO Errors	0
	Traffic Backoffs	0
	<b><u>Serial Communications</u></b> ← 894	
	Recieves	11591
	Transmits	11627
	Bad CRC	0
	Missed End	0
	Packet Too Long	0

FIG. 61



# REPLACEMENT SHEET

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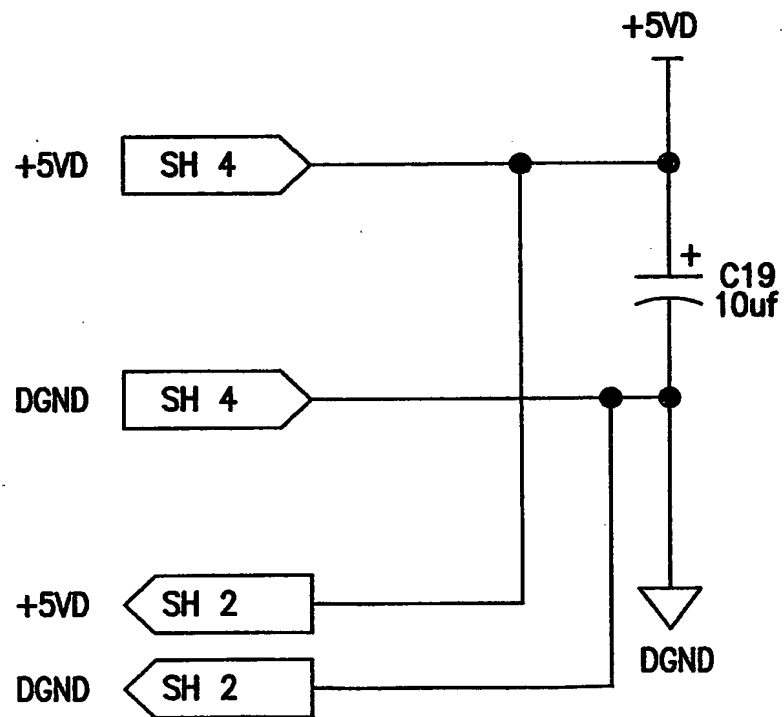
## FIG. 62

FIG. 62A	FIG. 62D	FIG. 62G	FIG. 62J	FIG. 62M	FIG. 62P	FIG. 62S
FIG. 62B	FIG. 62E	FIG. 62H	FIG. 62K	FIG. 62N	FIG. 62Q	FIG. 62T
FIG. 62C	FIG. 62F	FIG. 62I	FIG. 62L	FIG. 62O	FIG. 62R	FIG. 62U

REPLACEMENT SHEET

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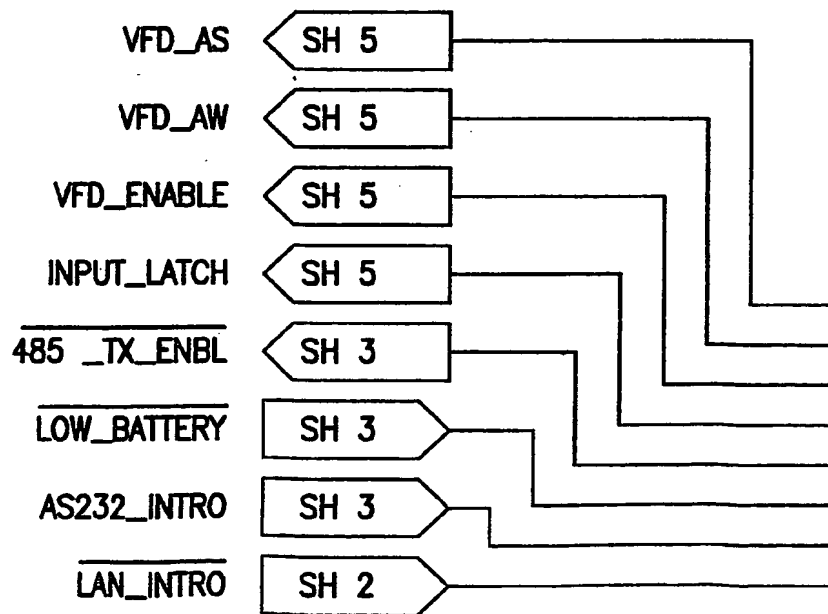
FIG. 62A



# REPLACEMENT SHEET

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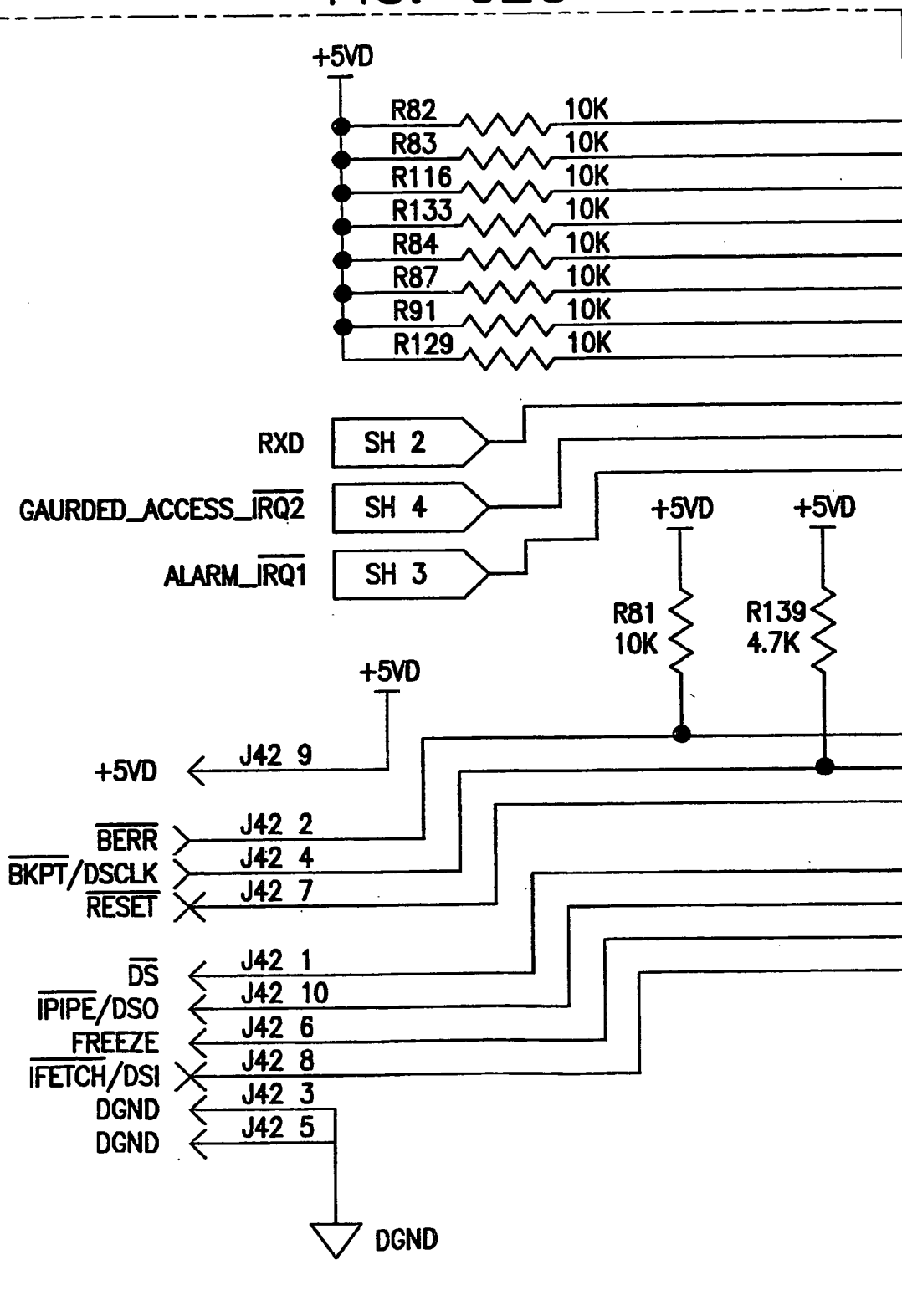
## FIG. 62B



# REPLACEMENT SHEET

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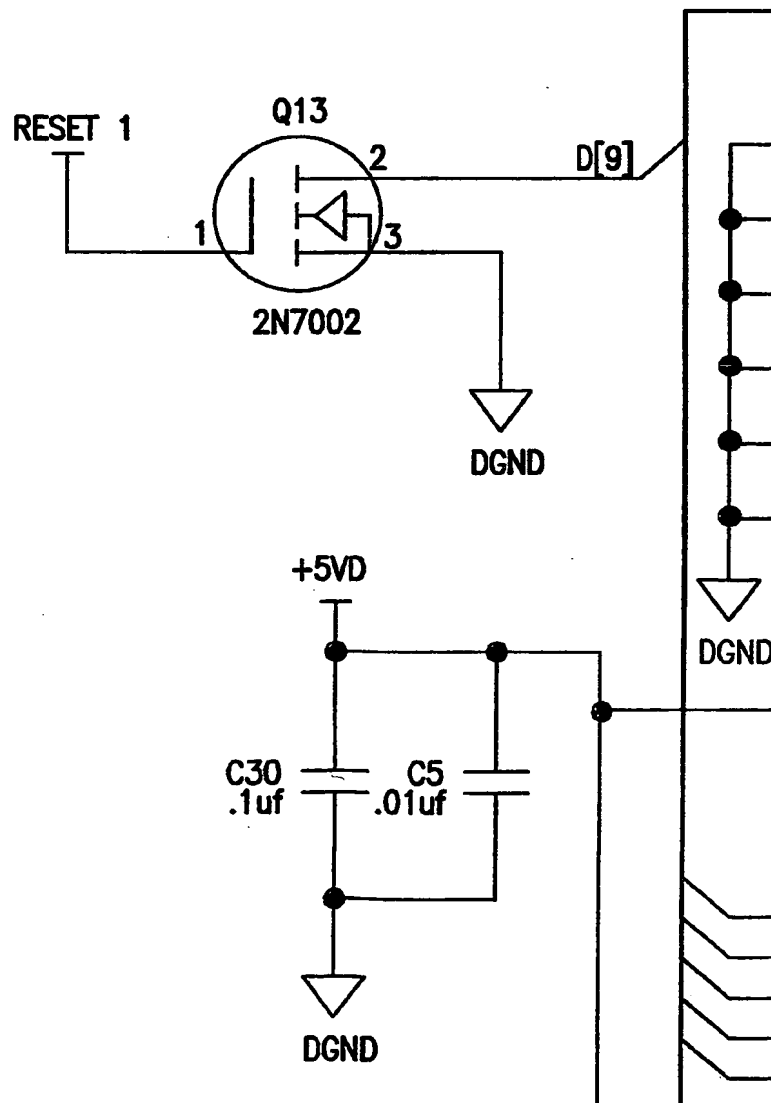
## FIG. 62C



REPLACEMENT SHEET

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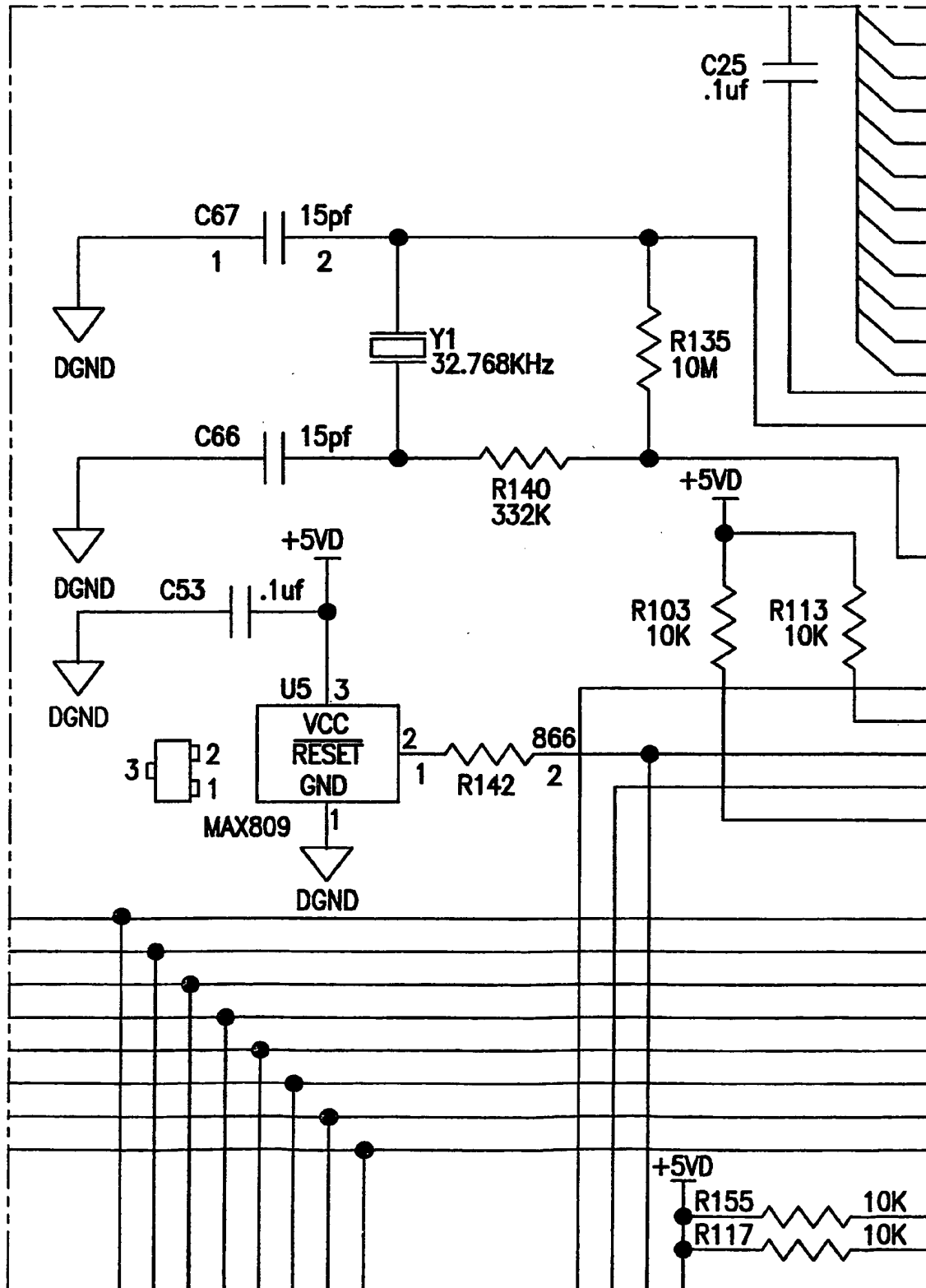
FIG. 62D



# REPLACEMENT SHEET

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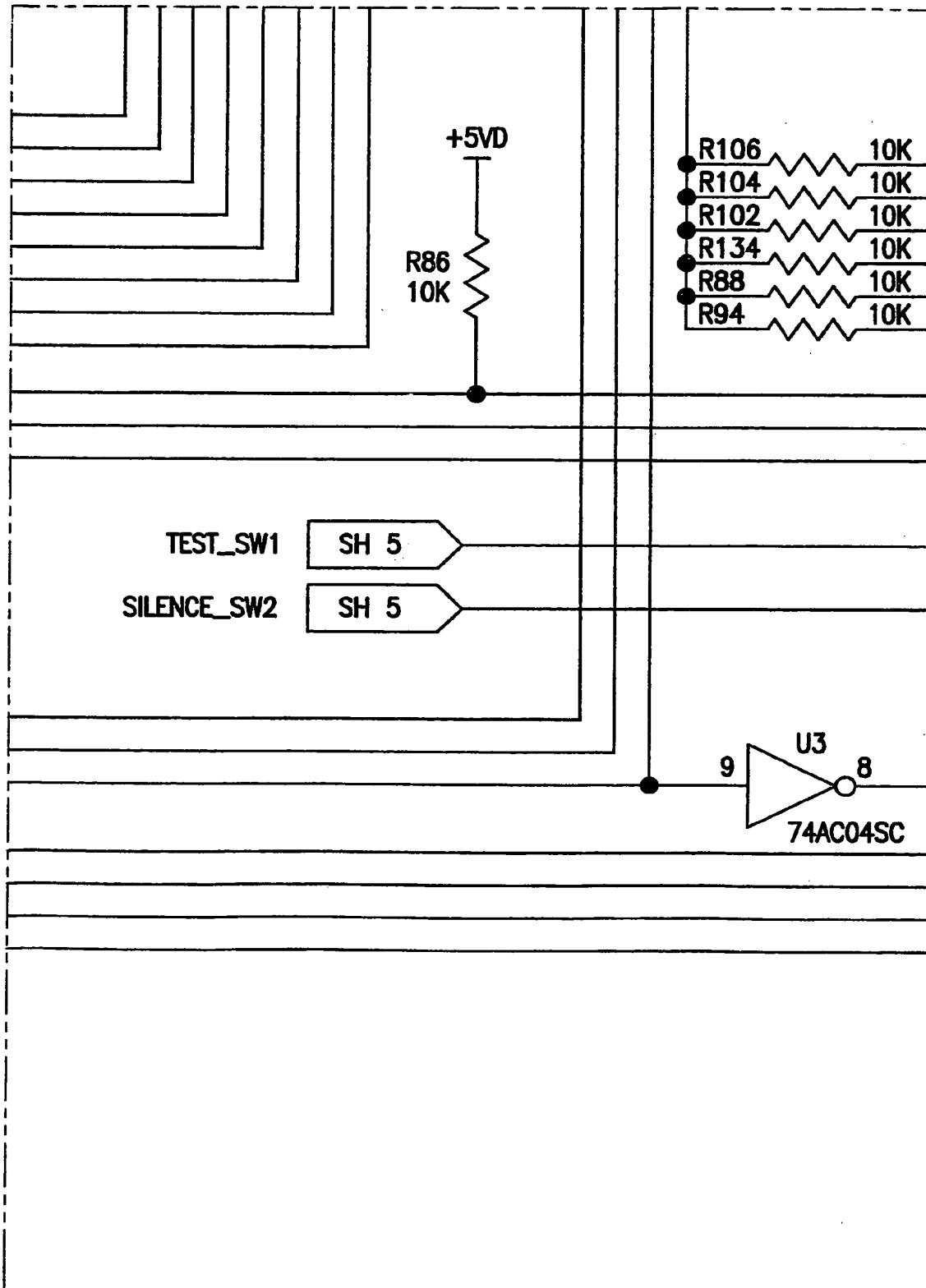
## FIG. 62E



# REPLACEMENT SHEET

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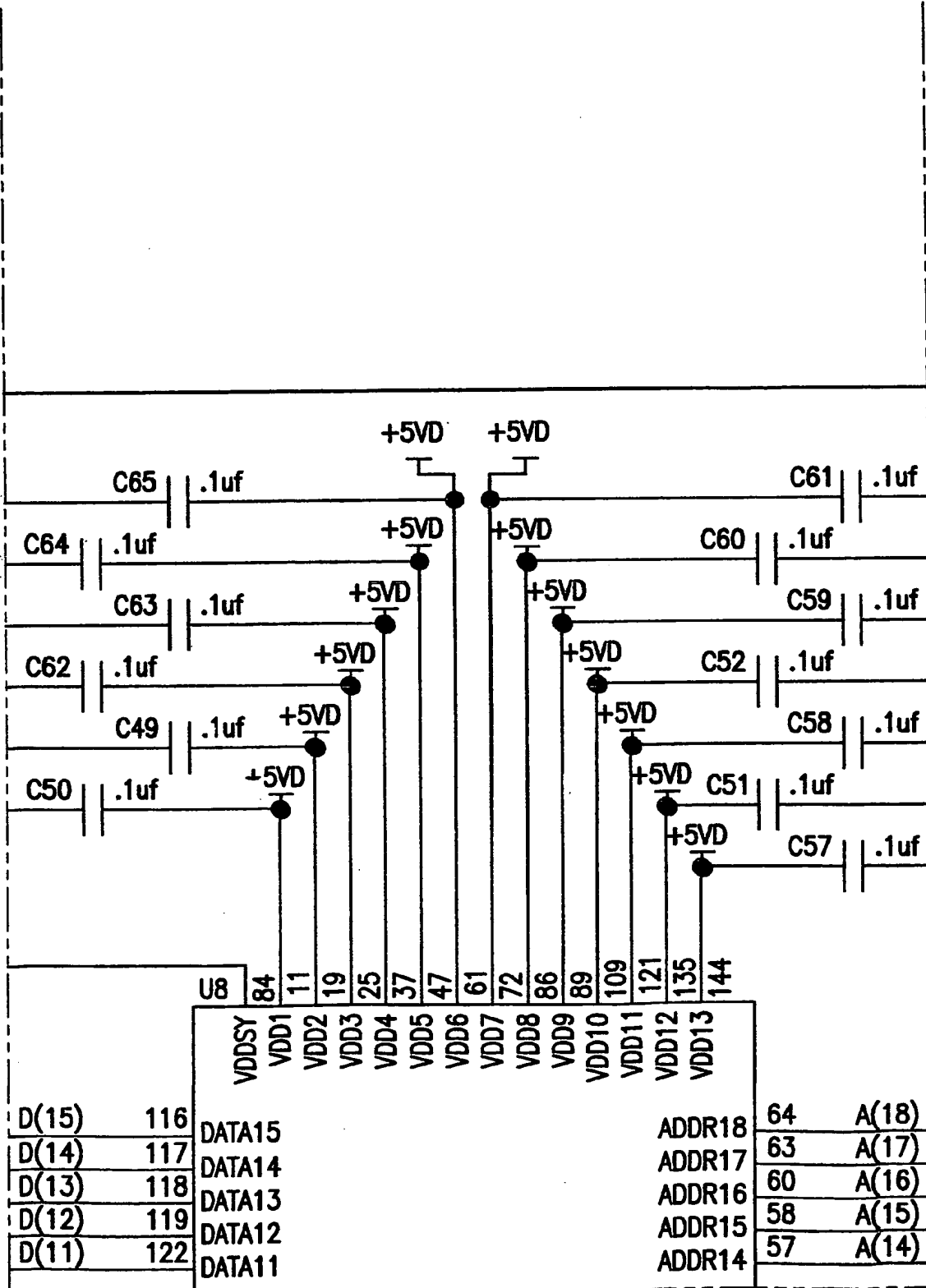
## FIG. 62F



# REPLACEMENT SHEET

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## FIG. 62G





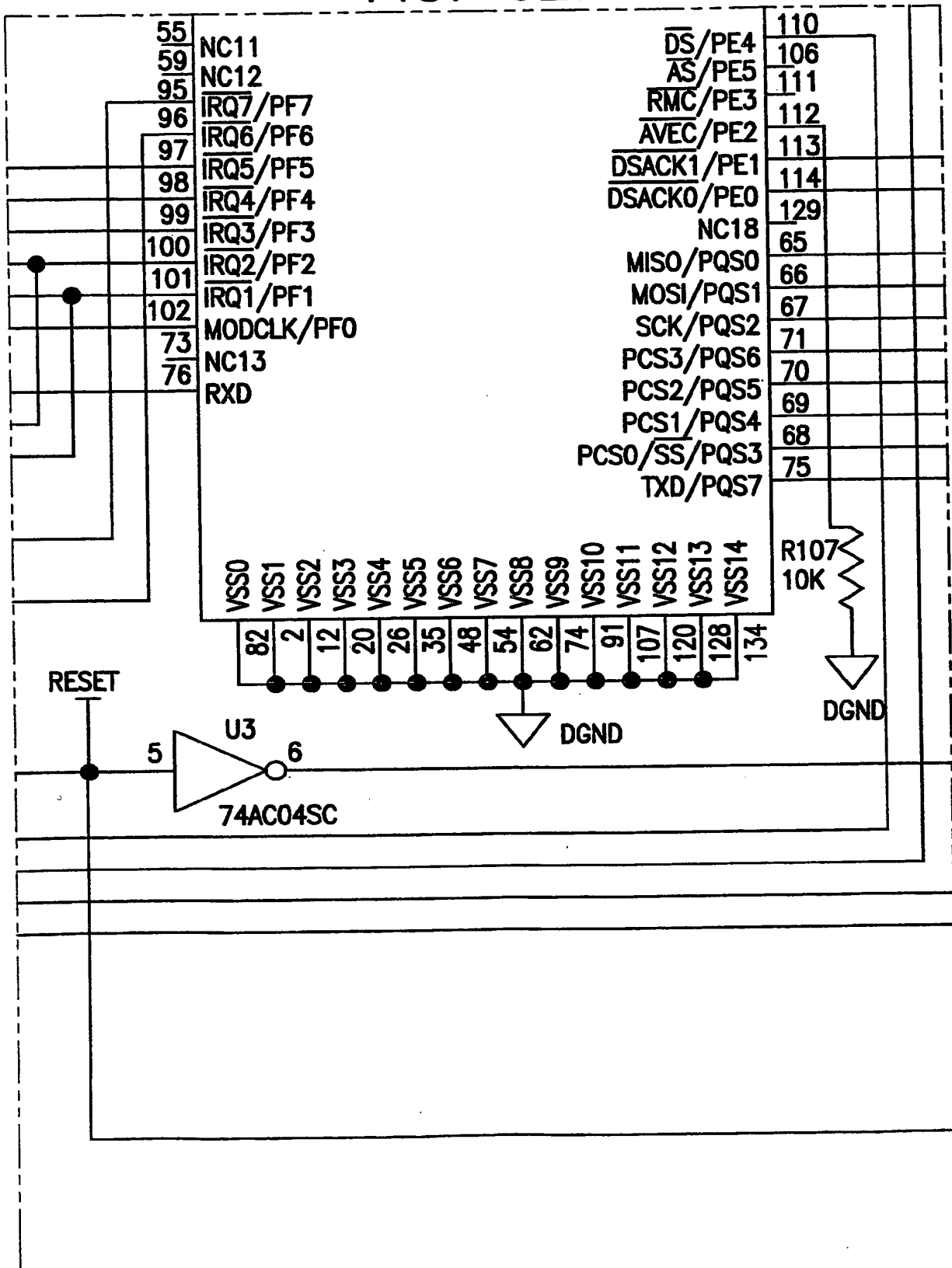
# REPLACEMENT SHEET

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## FIG. 62H

D(10)	124	DATA10	ADDR13	56	A(13)
D(9)	125	DATA9	ADDR11	52	A(12)
D(8)	127	DATA8	ADDR12	51	A(11)
D(7)	130	DATA7	ADDR10	50	A(10)
D(6)	131	DATA6	ADDR9	49	A(9)
D(5)	132	DATA5	ADDR8	46	A(8)
D(4)	133	DATA4	ADDR7	45	A(7)
D(3)	136	DATA3	ADDR6	44	A(6)
D(2)	137	DATA2	ADDR5	43	A(5)
D(1)	138	DATA1	ADDR4	42	A(4)
D(0)	139	DATA0	ADDR3	41	A(3)
	1	NC1	ADDR2	40	A(2)
	16	NC2	ADDR1	39	A(1)
	17	NC3	ADDR0	115	A(0)
	87	XFC	NC14	88	A(19)
	85	EXTAL	ADDR23/CS10	10	
	83	XTAL	ADDR22/CS9/PC6	9	
	18	NC4	ADDR21/CS8/PC5	8	
	21	NC5	ADDR20/CS7/PC4	7	
	27	NC6	ADDR19/CS6/PC3	6	
	94	BERR	CS5/FC2/PC2	5	
	93	HALT	CS4/FC1/PC1	4	
	92	RESET	CS3/FC0/PC0	3	
	79	BKPT/DSCLK	NC15	108	
	80	TSC	BGACK/CS2	143	
	34	NC7	BG/CS1	142	
	36	NC8	BH/CS0	141	
	23	IC4/OC5/OC1/PGP7	CSB00T	140	
	24	OC4/OC1/PGP6	NC16	123	
	28	OC3/OC1/PGP5	R/W	103	
	29	OC2/OC1/PGP4	CLKOUT	90	
	30	OC1/PGP3	PWMA	15	
	31	IC3/PGP2	PWMB	14	
	32	IC2/PGP1	FREEZE/OOUT	81	
	33	IC1/PGP0	IPIPE/DSO	77	
	38	NC9	IFETCH/DSI	78	
	53	NC10	NC17	126	
	22	PAI	SIZ1/PE7	104	
	13	PCLK	SIZ0/PE6	105	

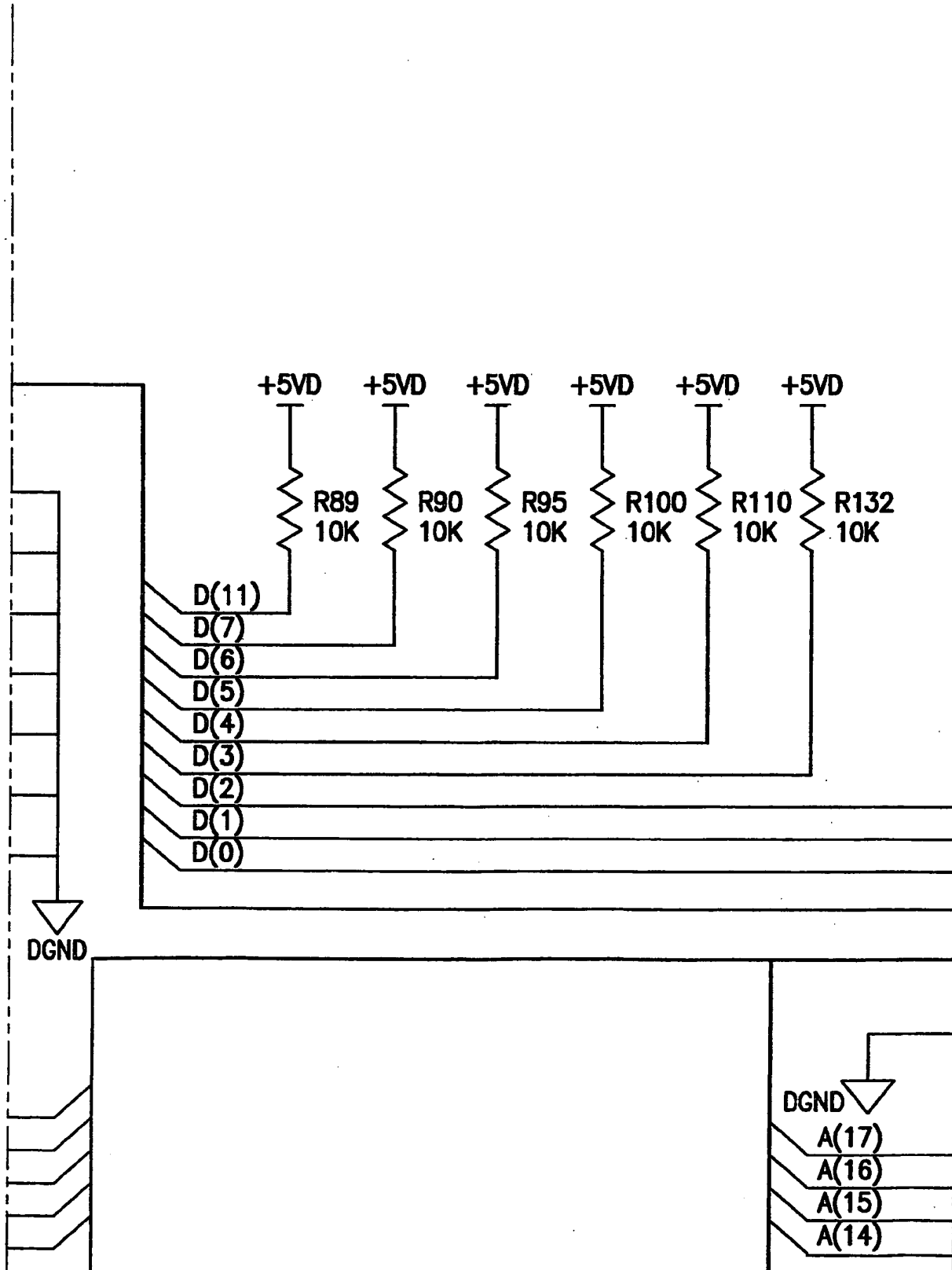
FIG. 621



REPLACEMENT SHEET

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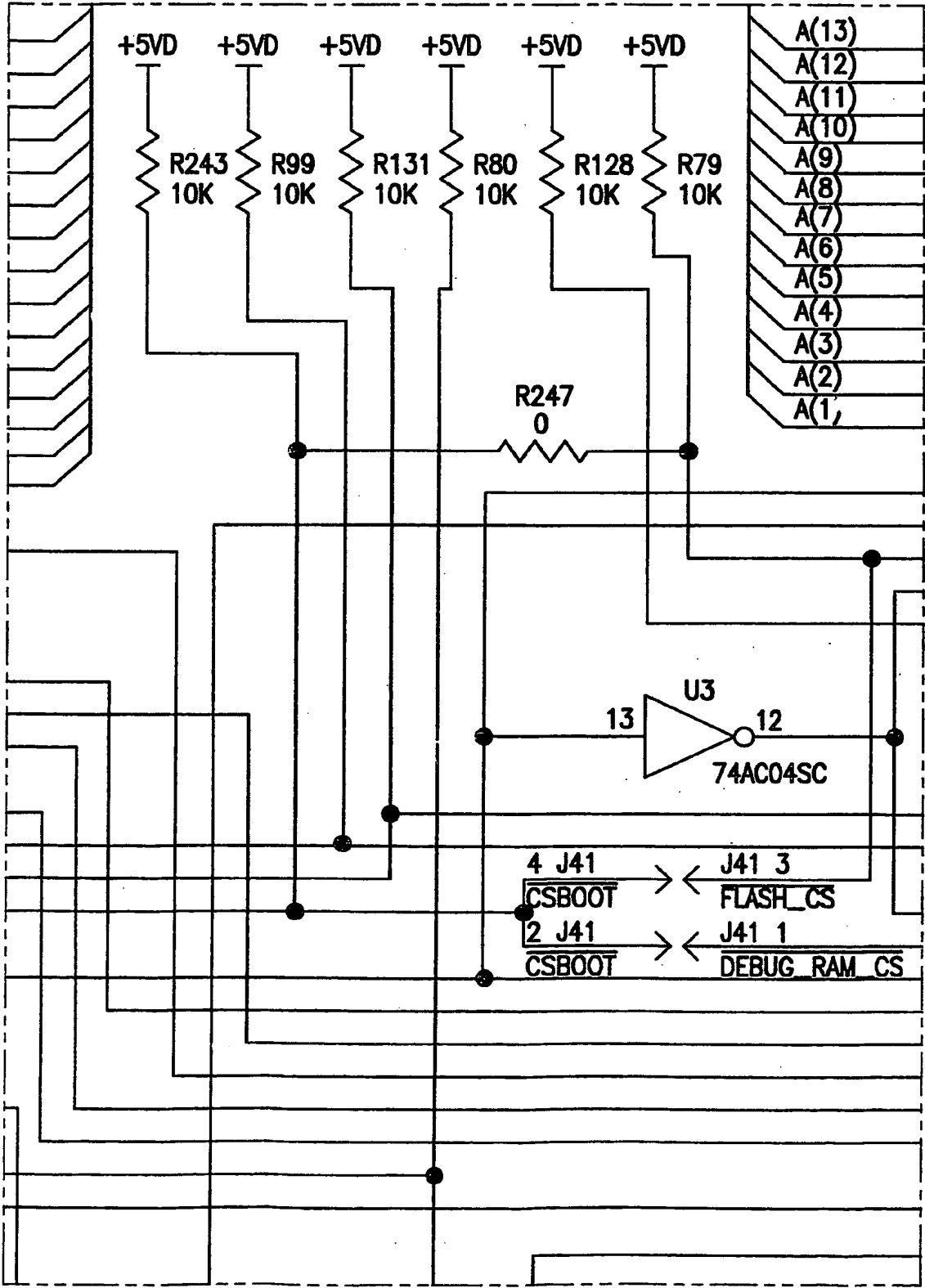
FIG. 62J



REPLACEMENT SHEET

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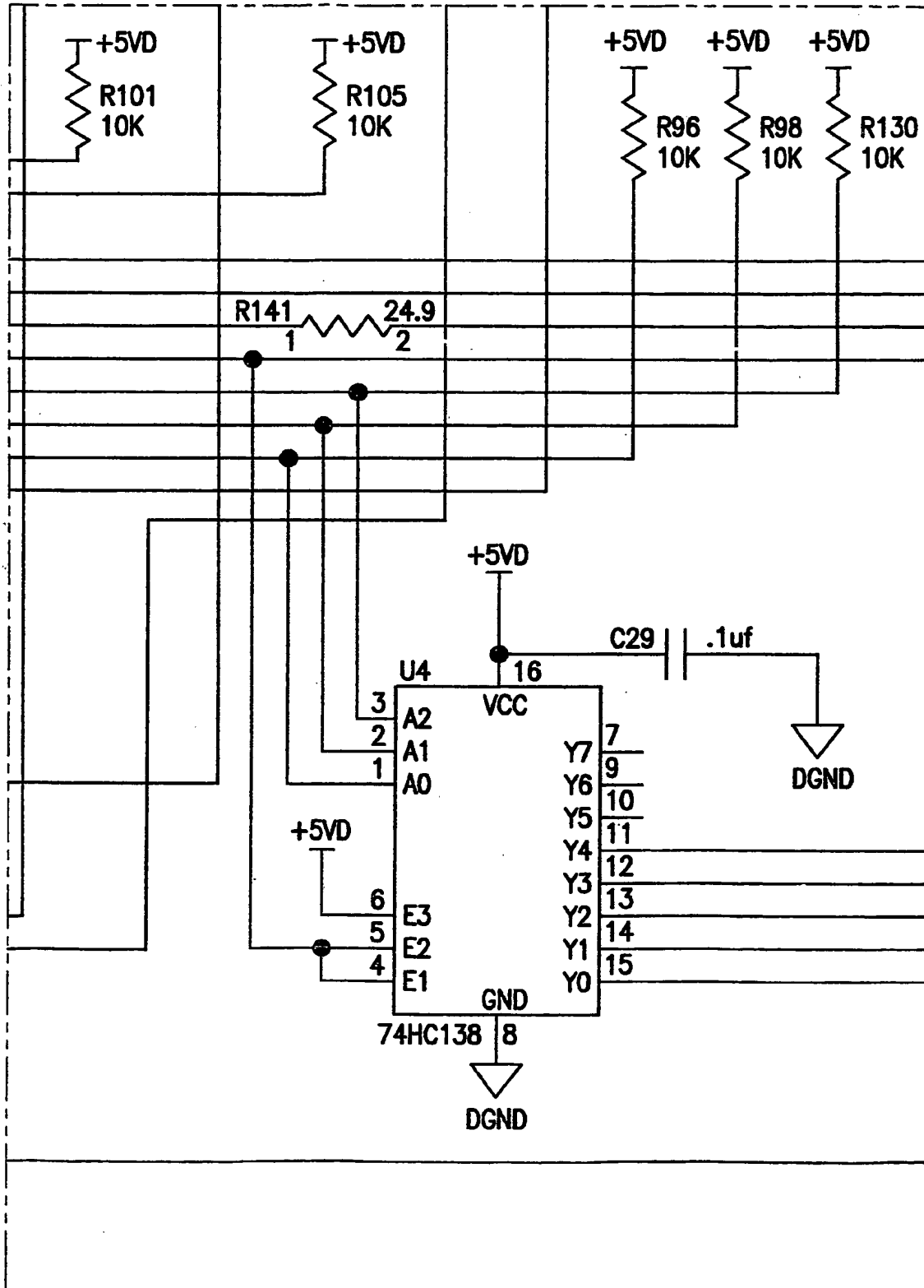
FIG. 62K



# REPLACEMENT SHEET

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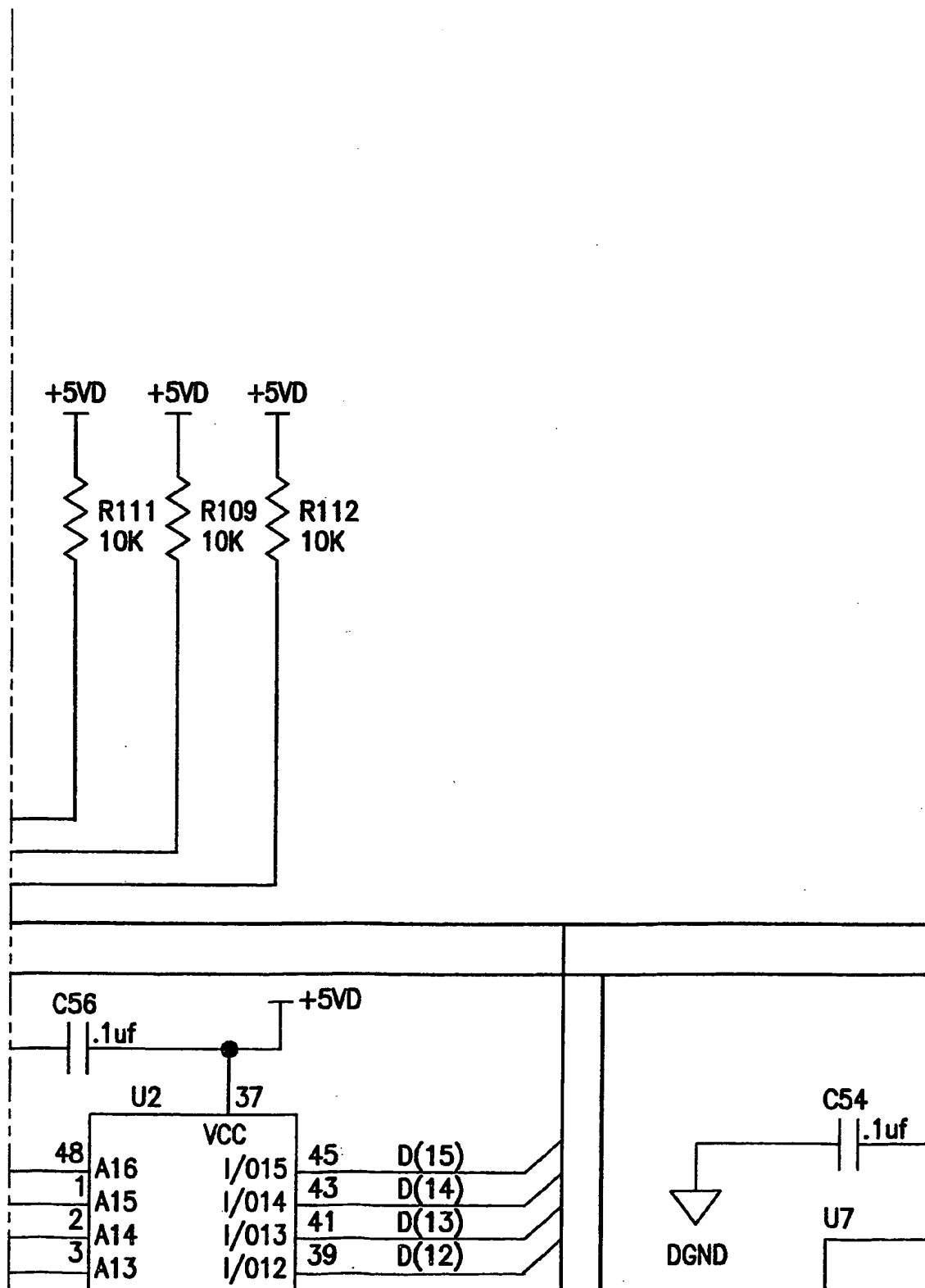
## FIG. 62L



# REPLACEMENT SHEET

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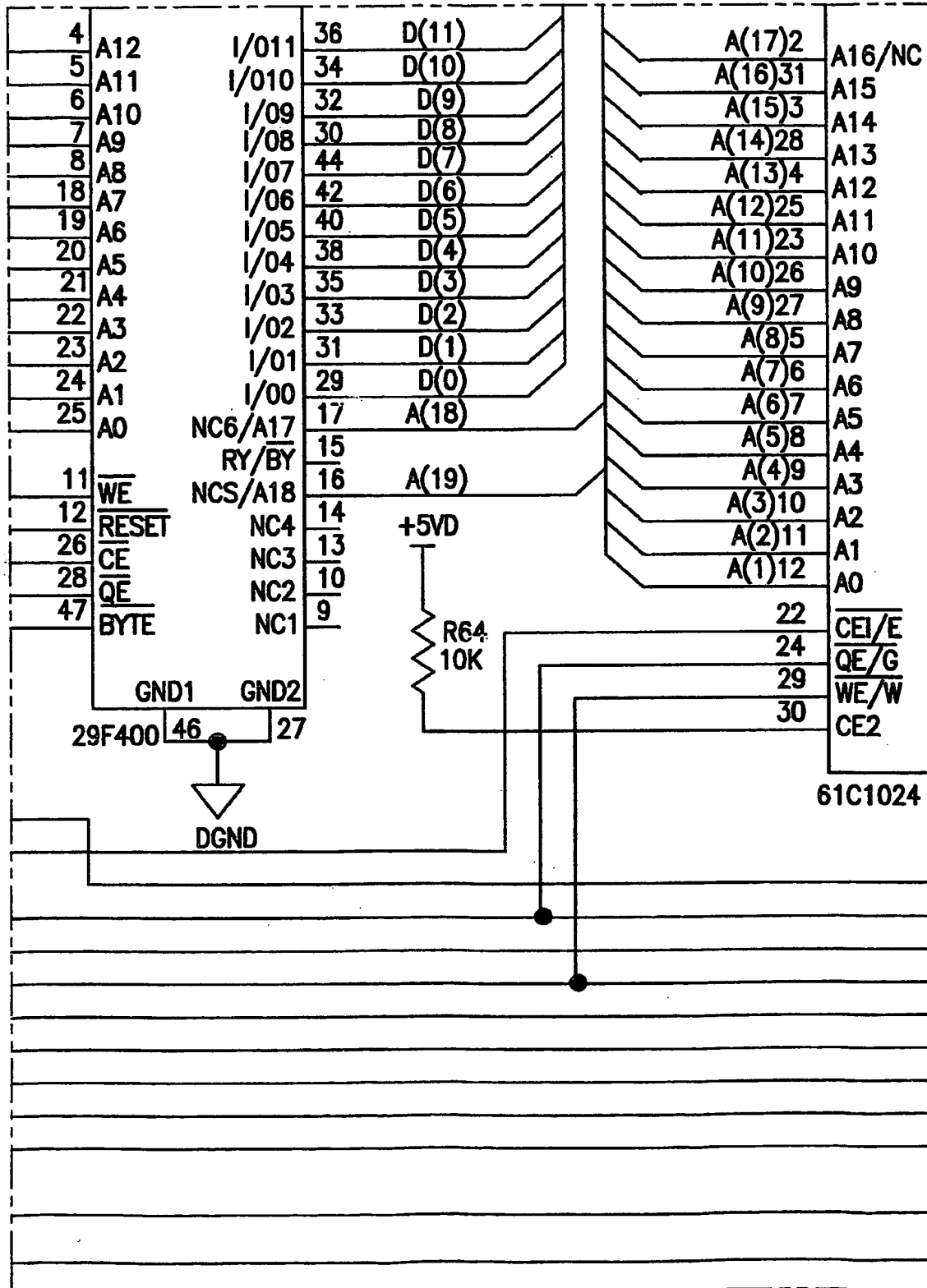
## FIG. 62M



# REPLACEMENT SHEET

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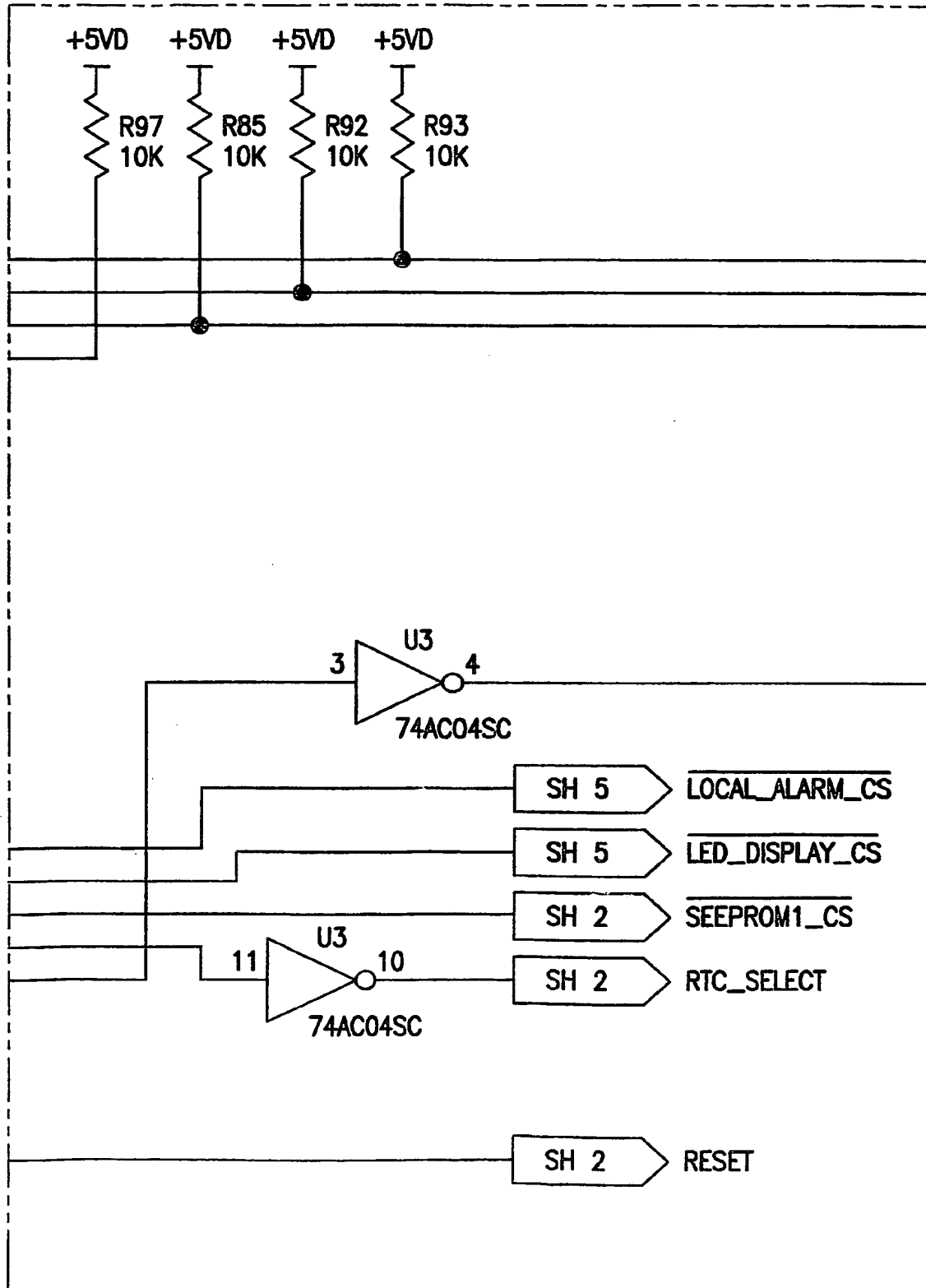
## FIG. 62N



# REPLACEMENT SHEET

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## FIG. 620

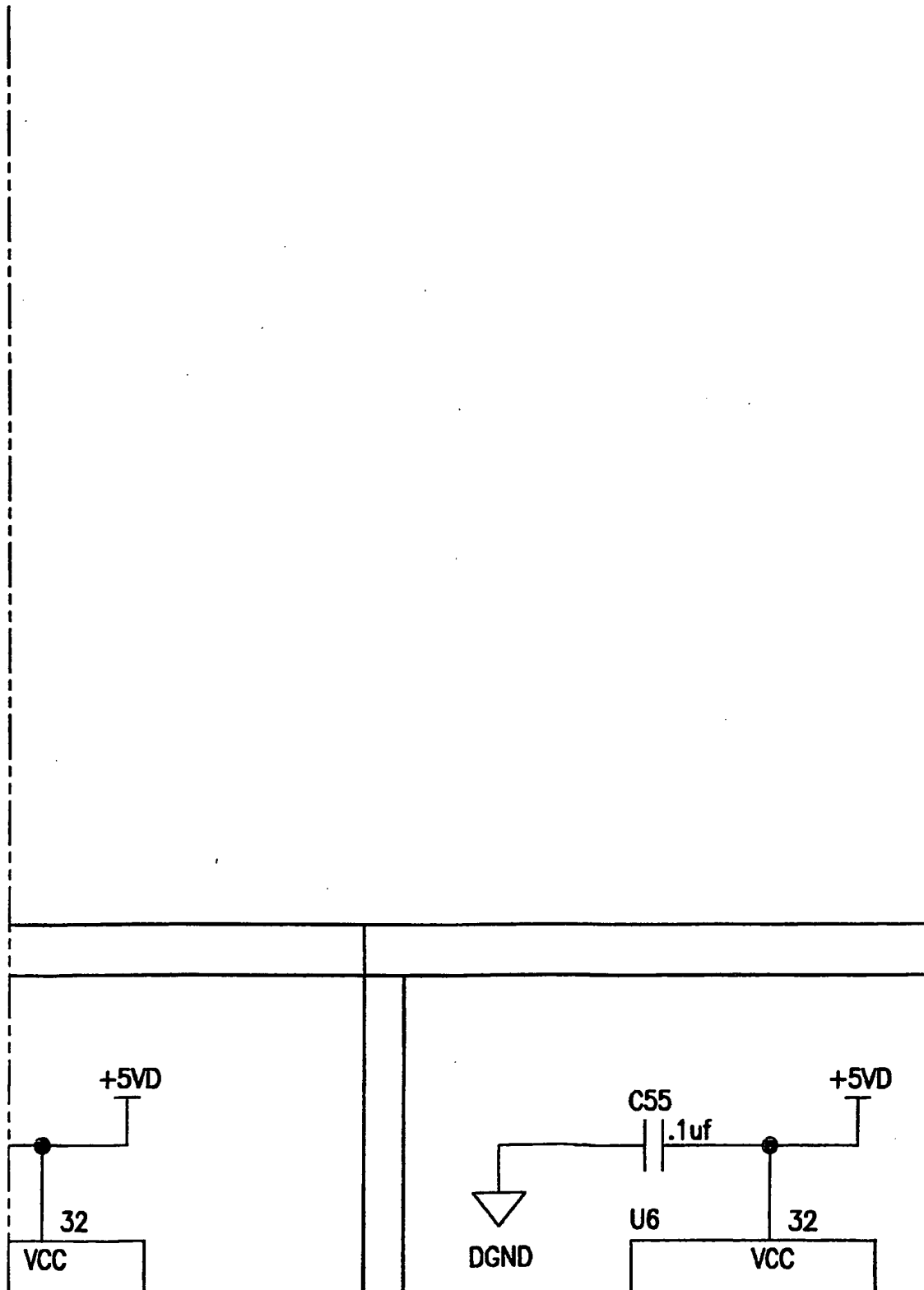




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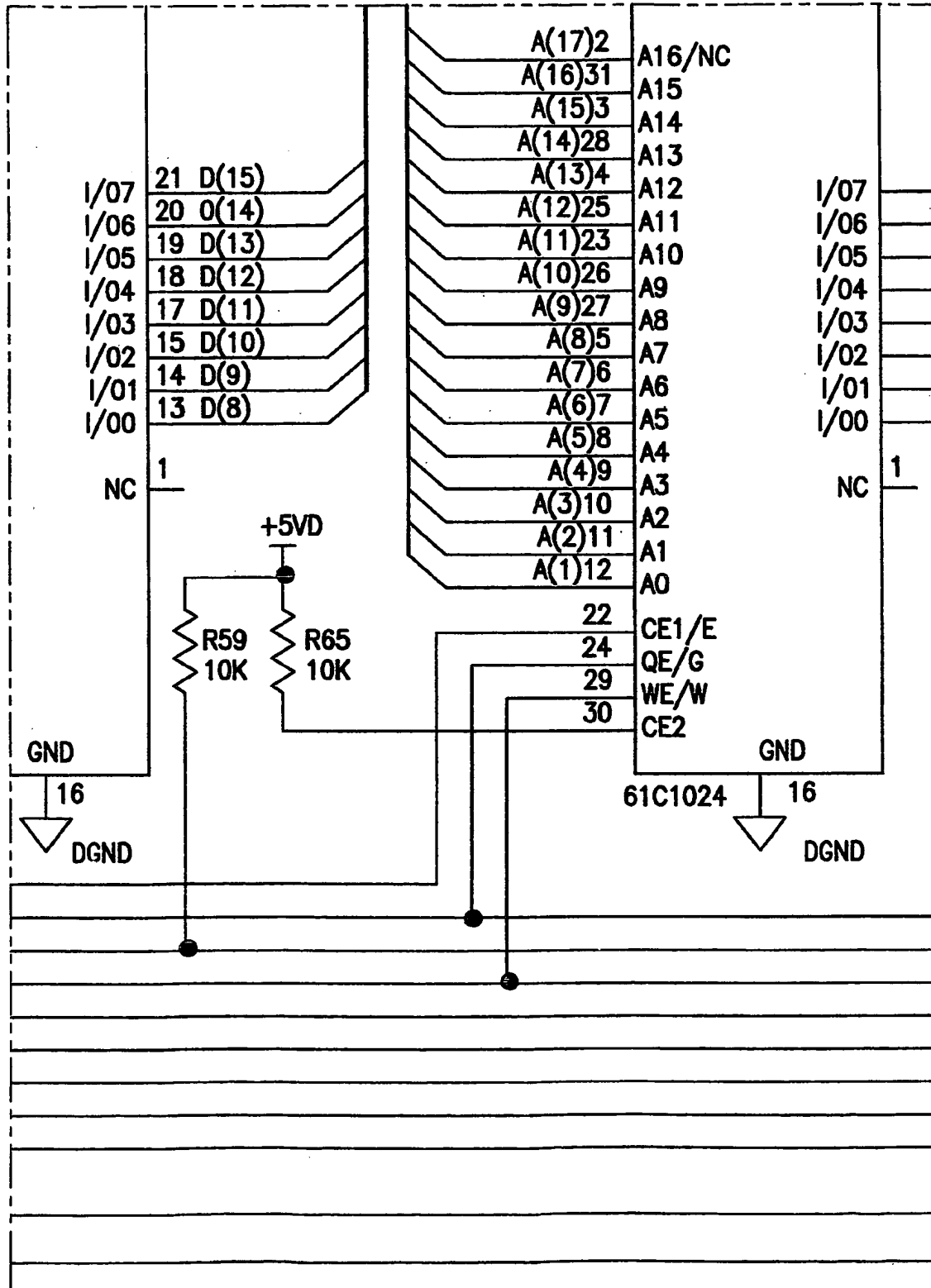
FIG. 62P



# REPLACEMENT SHEET

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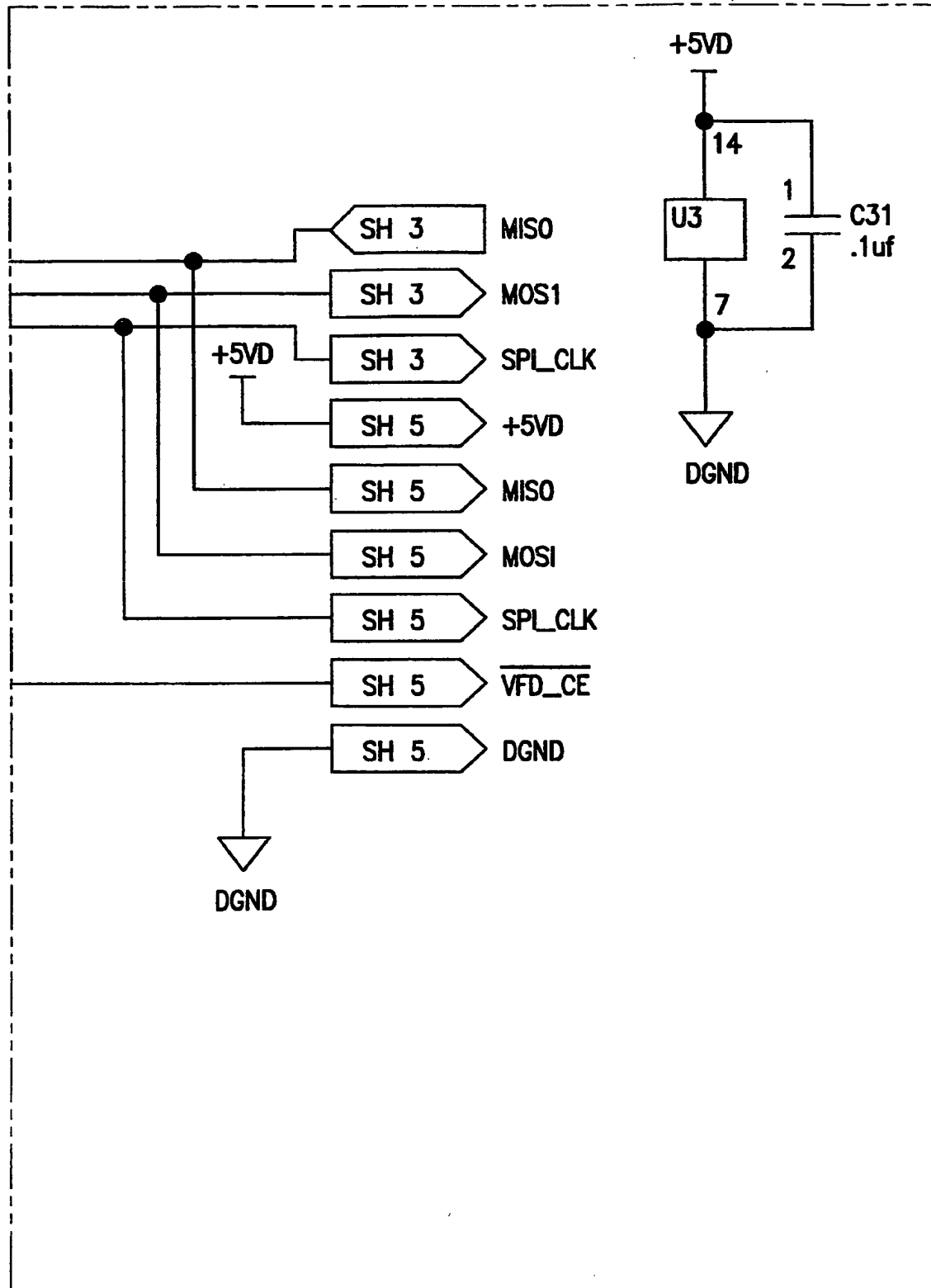
## FIG. 62Q



# REPLACEMENT SHEET

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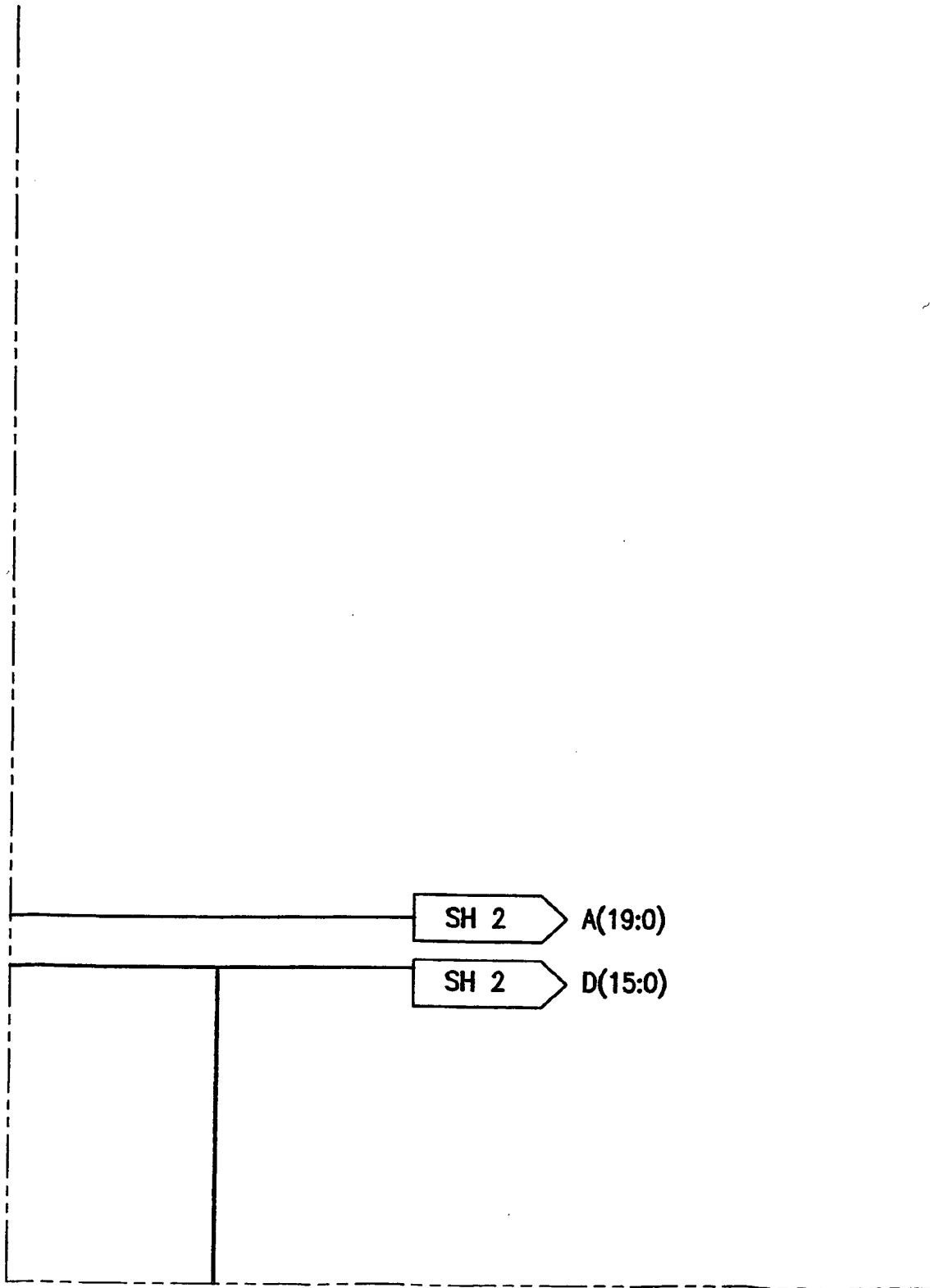
## FIG. 62R



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FIG. 62S



# REPLACEMENT SHEET

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## FIG. 62T

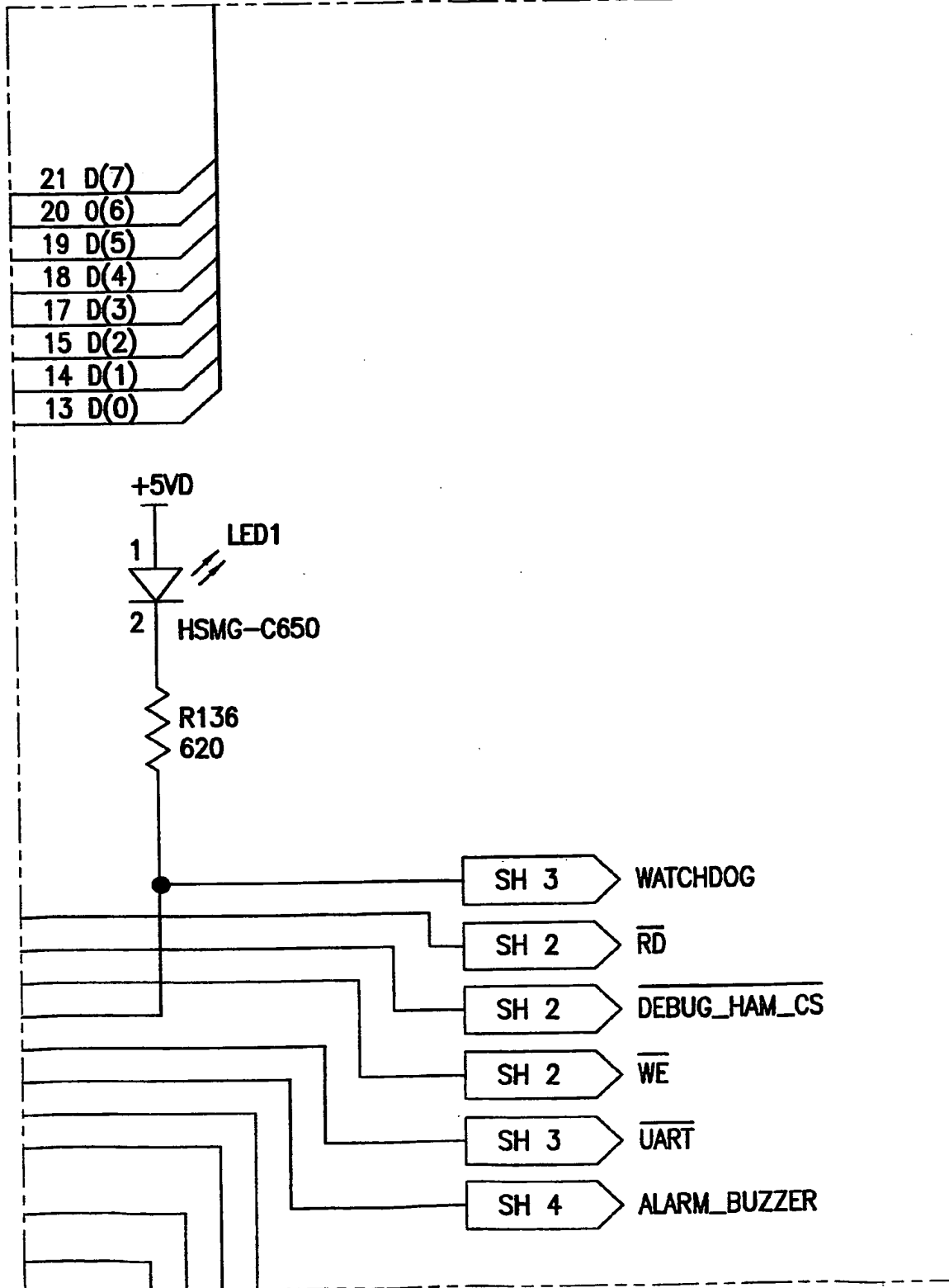
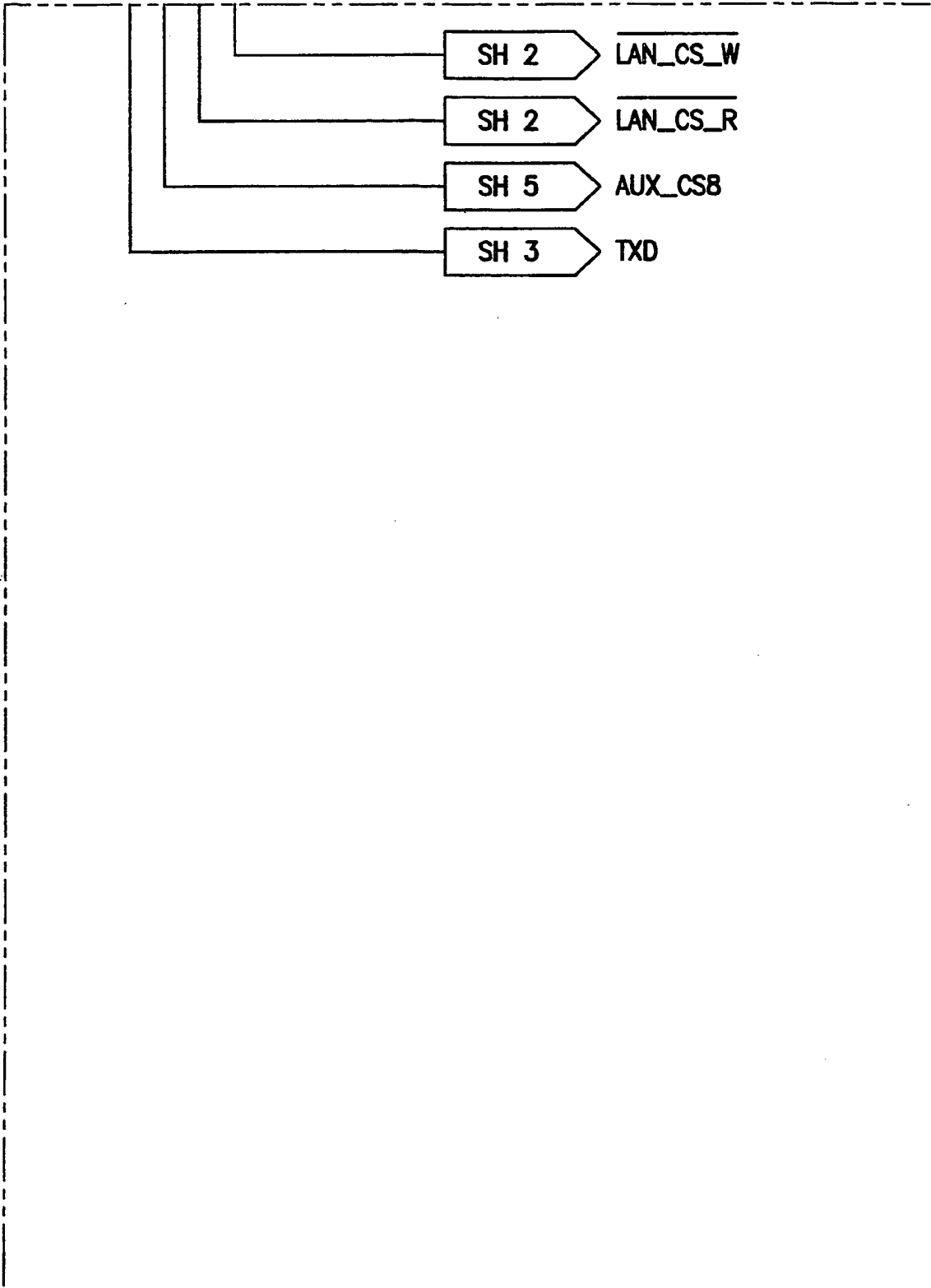


FIG. 62U



# REPLACEMENT SHEET

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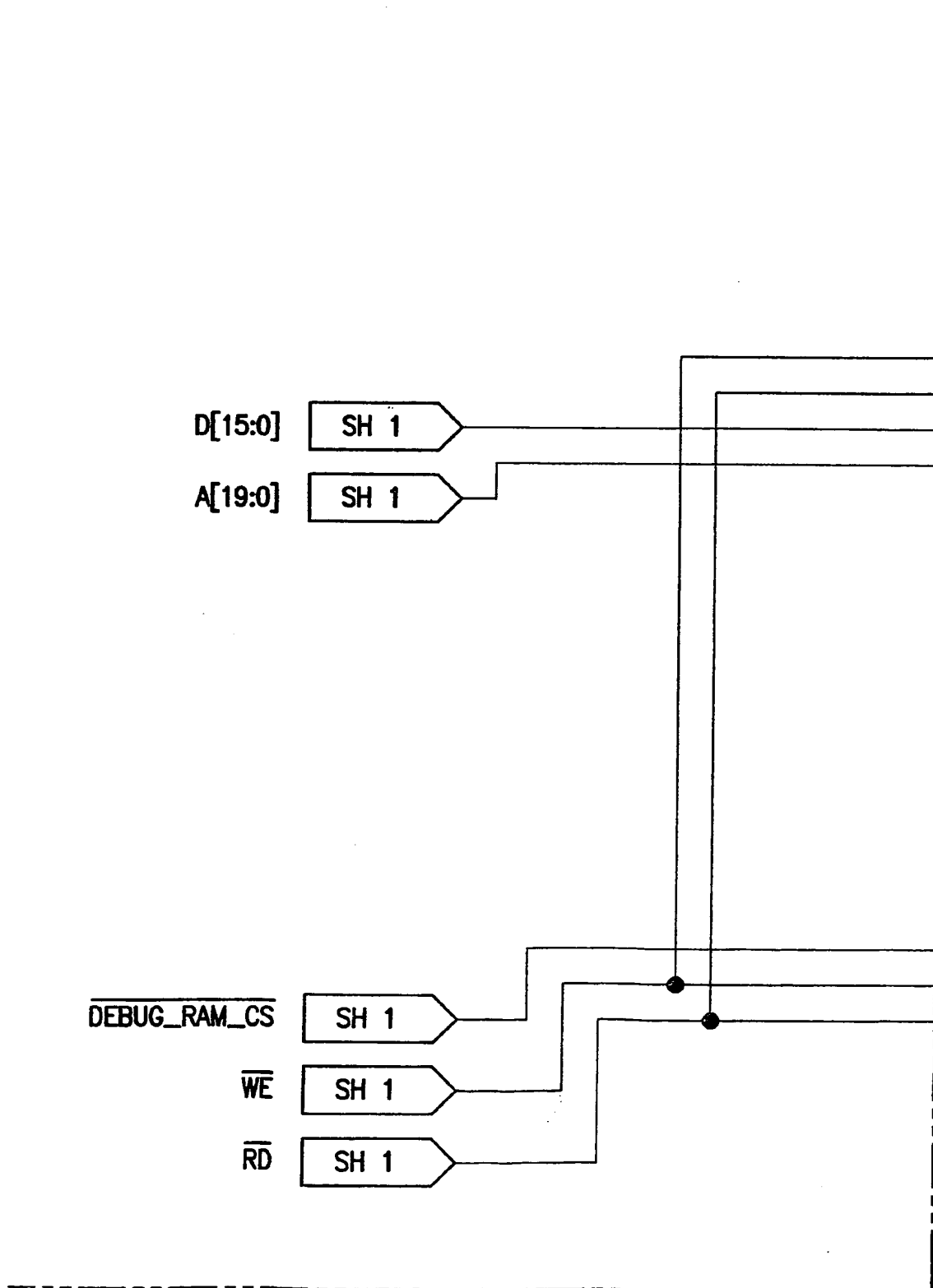
## FIG. 63

FIG. 63A	FIG. 63D	FIG. 63G	FIG. 63J
FIG. 63B	FIG. 63E	FIG. 63H	FIG. 63K
FIG. 63C	FIG. 63F	FIG. 63I	FIG. 63L

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FIG. 63A

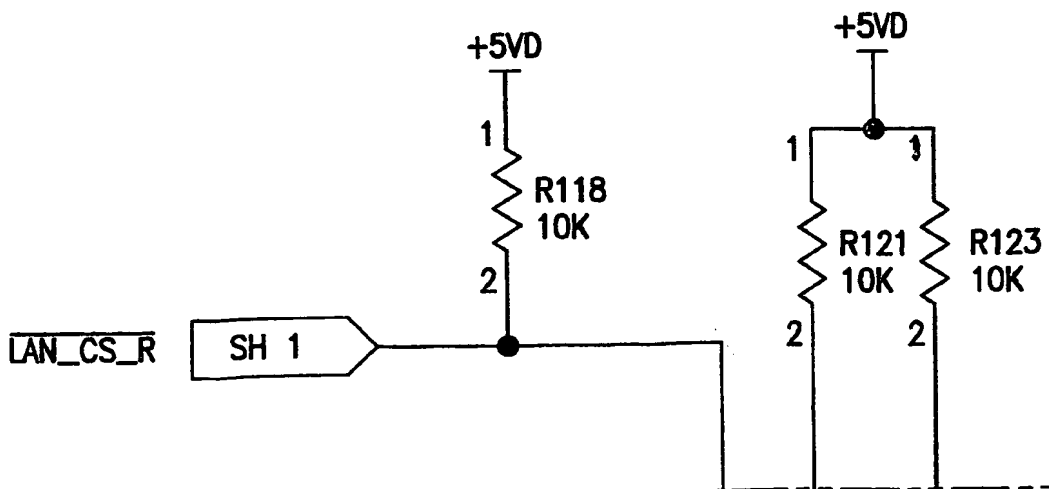
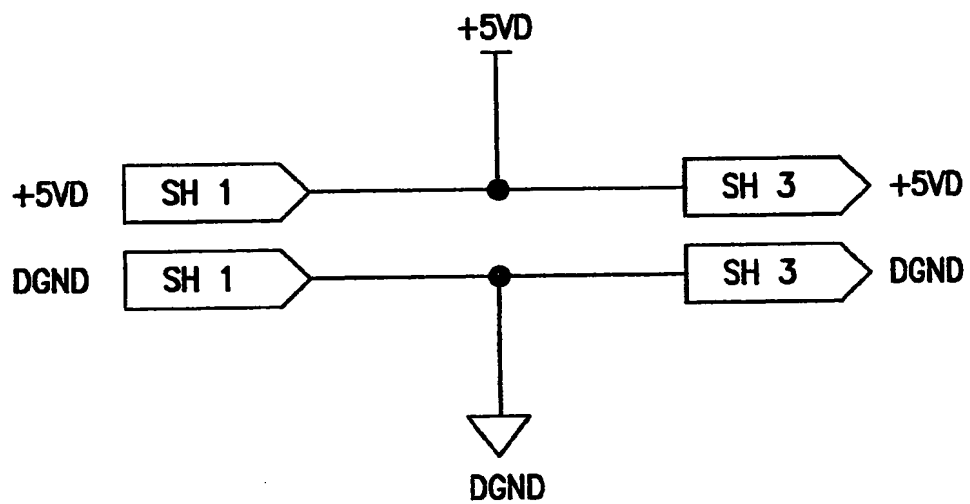




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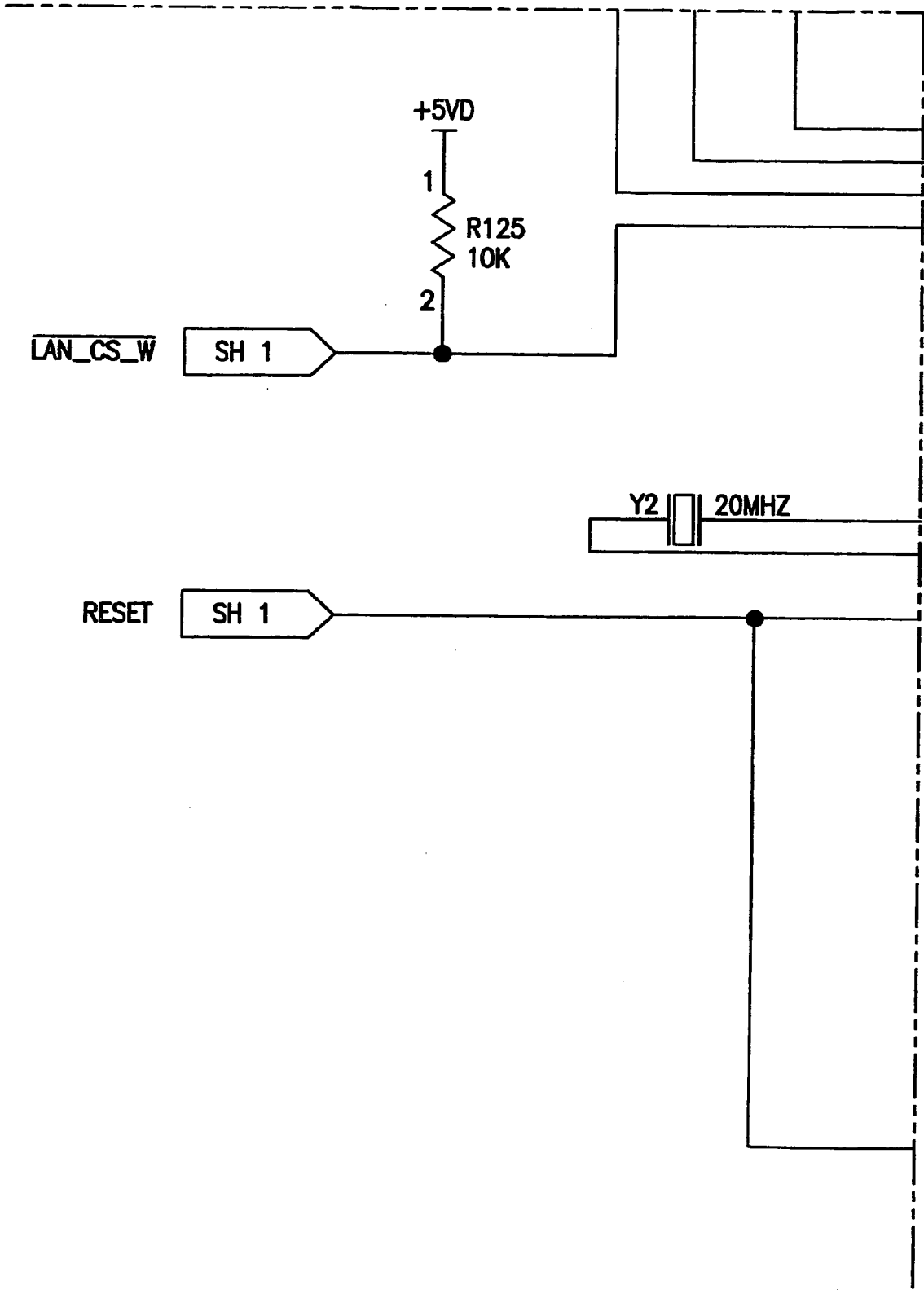
## FIG. 63B



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FIG. 63C



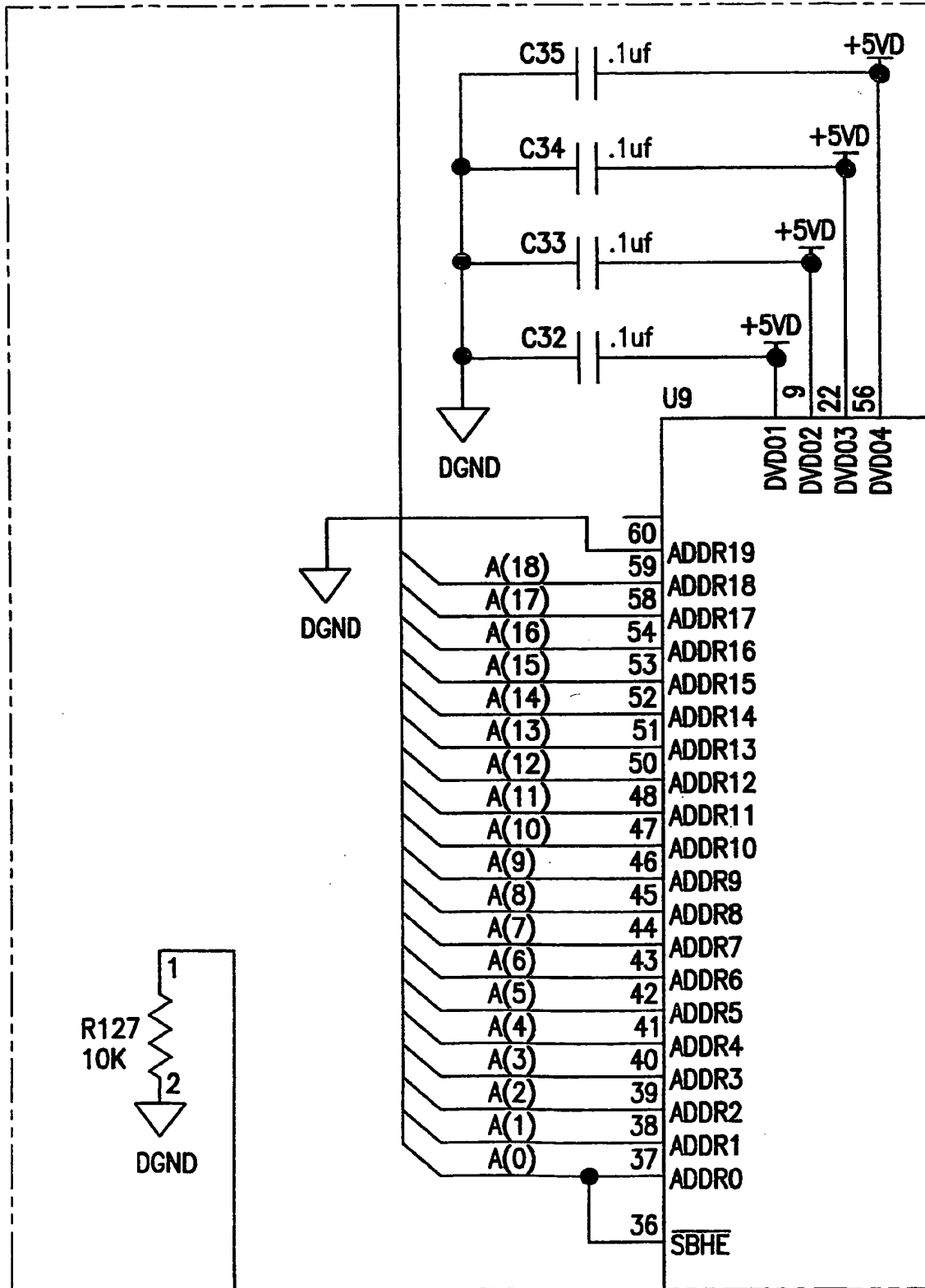
[illegible]

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# REPLACEMENT SHEET

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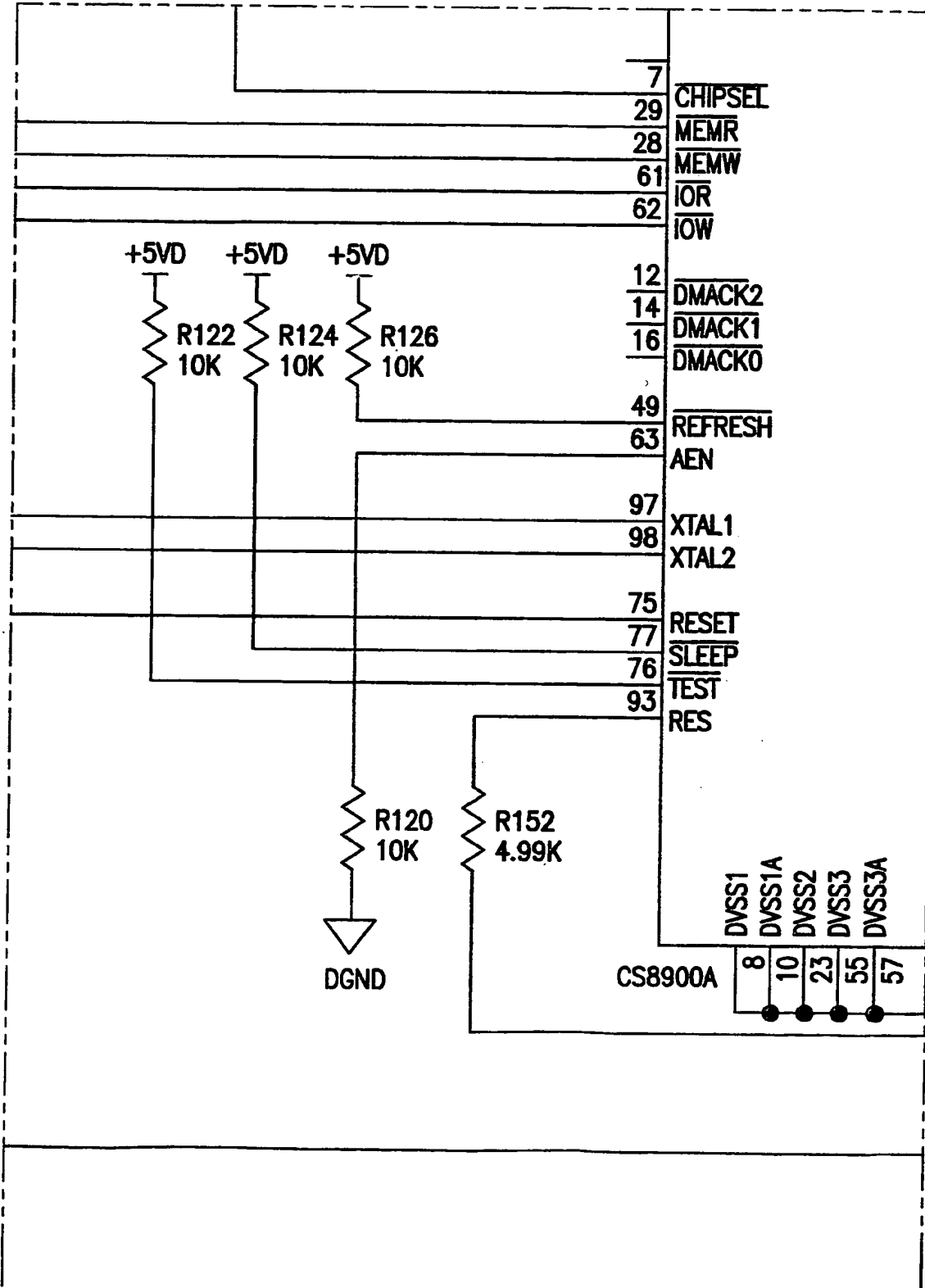
## FIG. 63E



# REPLACEMENT SHEET

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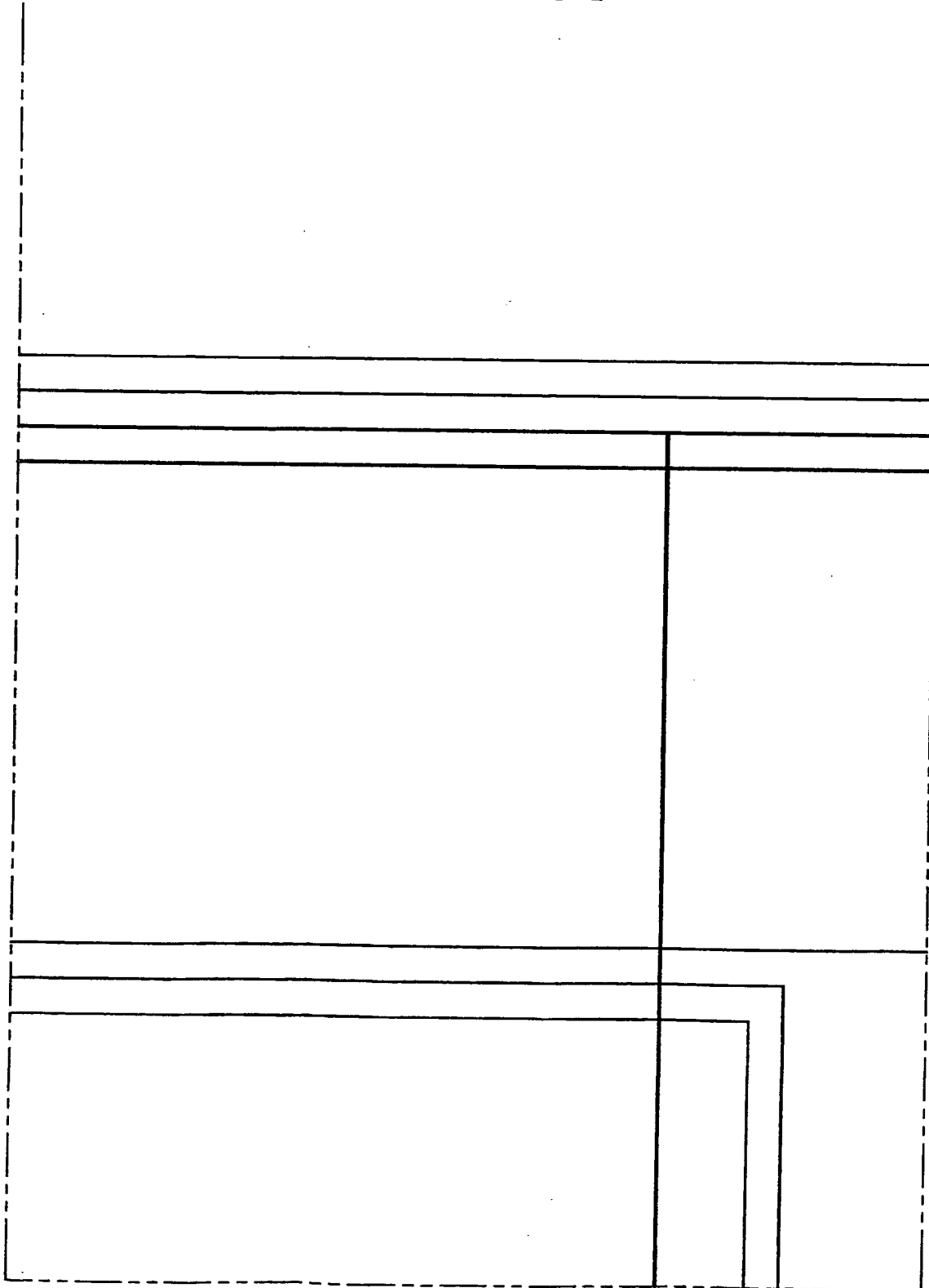
## FIG. 63F



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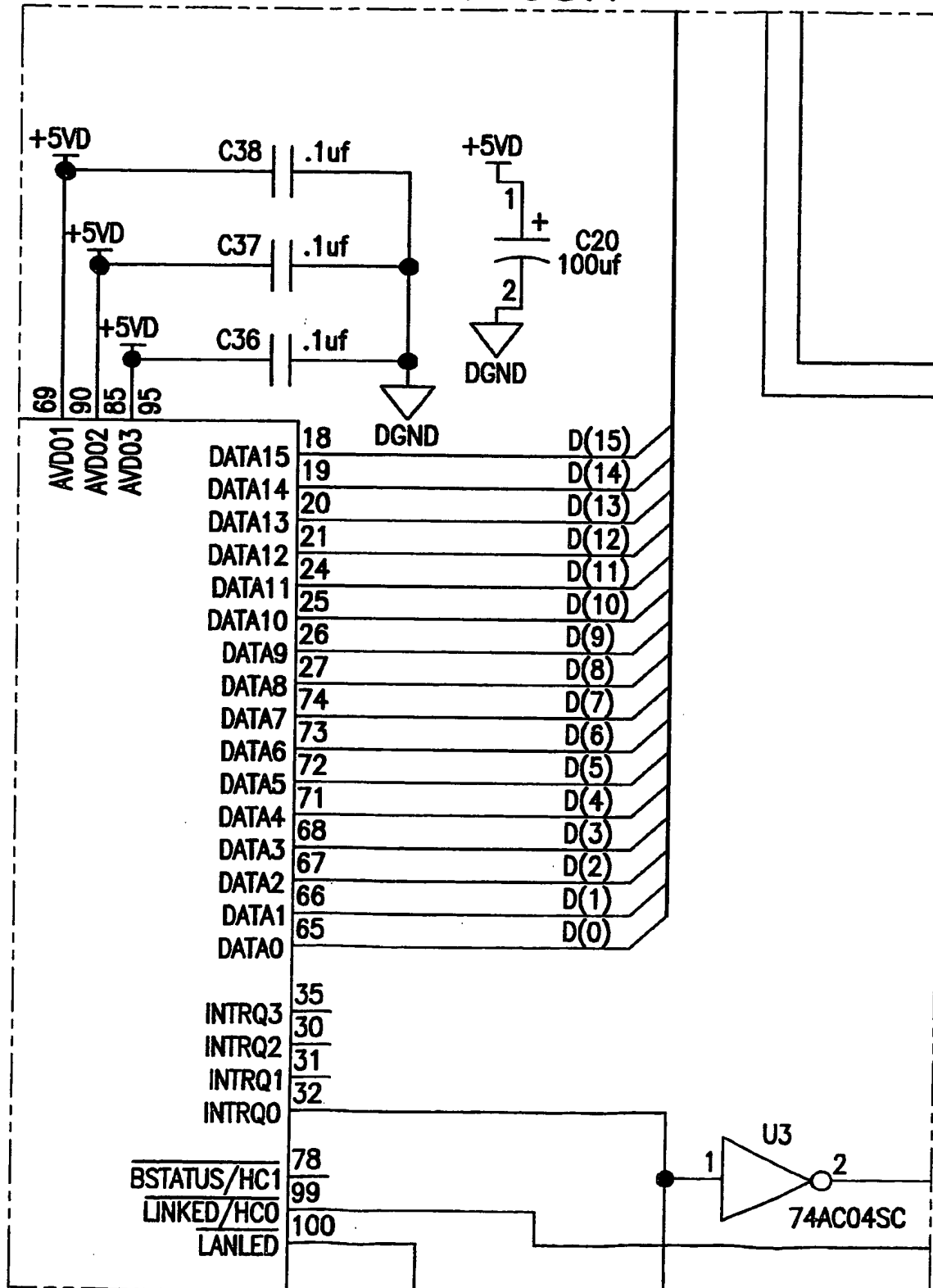
FIG. 63G



# REPLACEMENT SHEET

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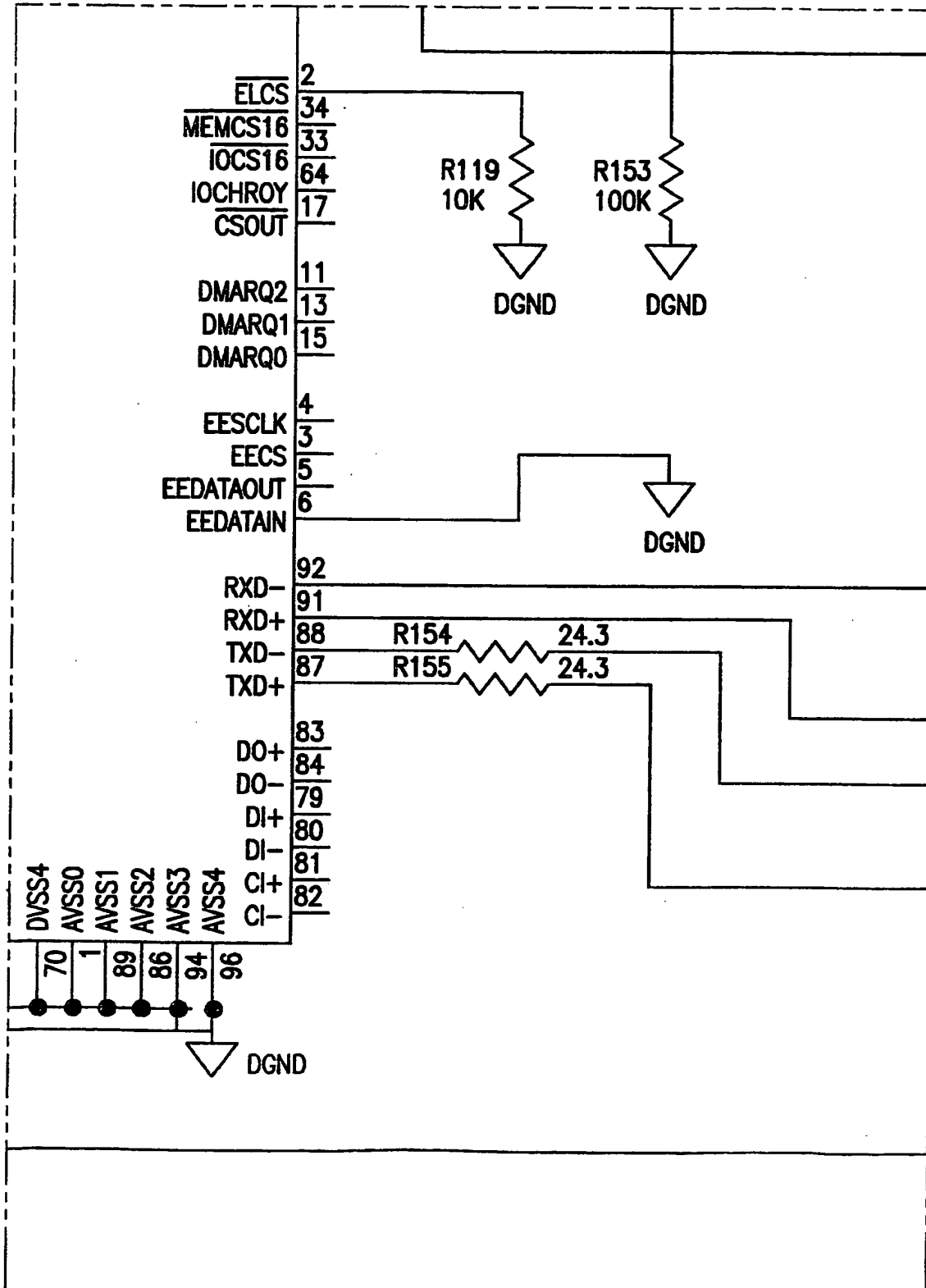
## FIG. 63H



# REPLACEMENT SHEET

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## FIG. 631

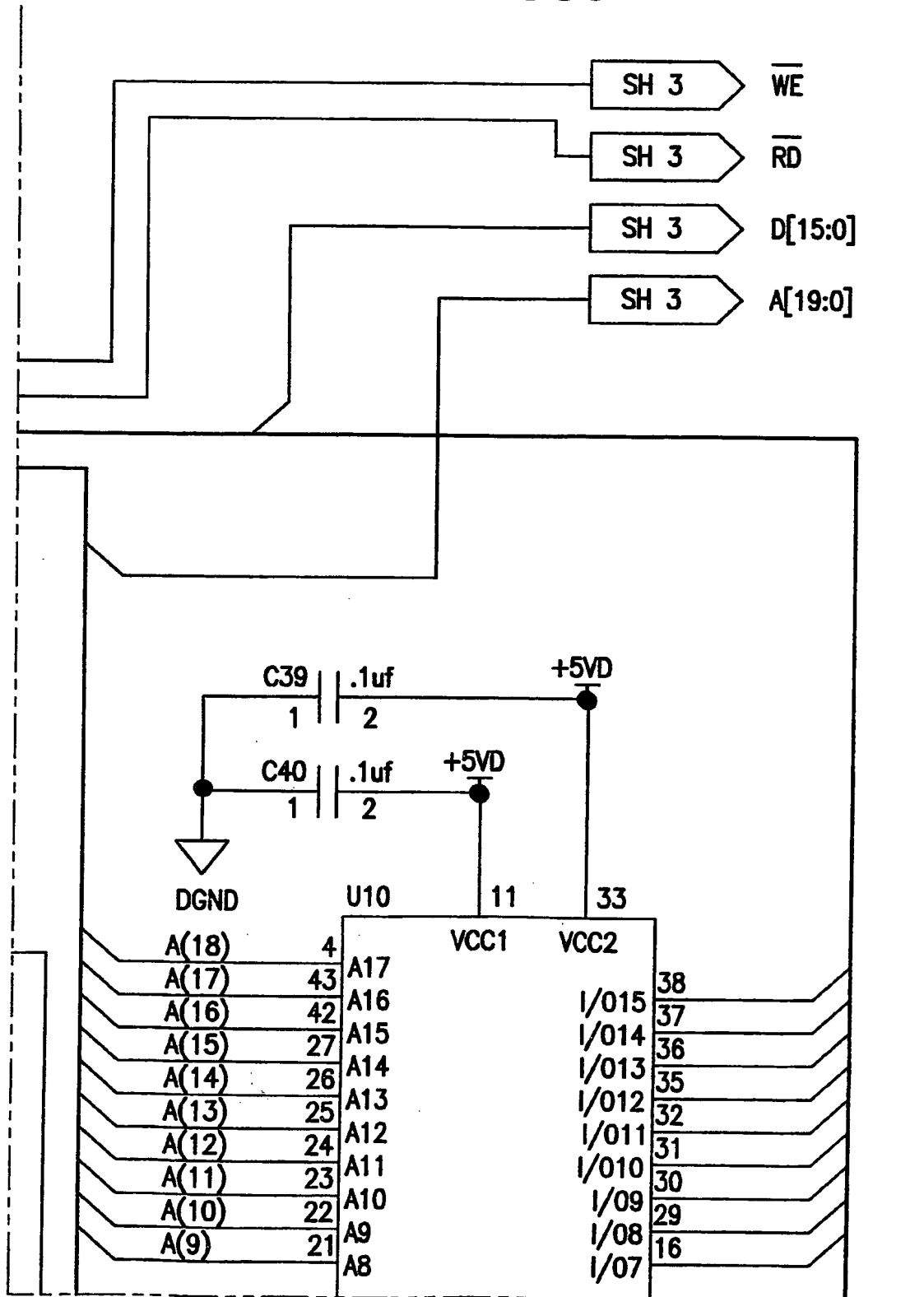




# REPLACEMENT SHEET

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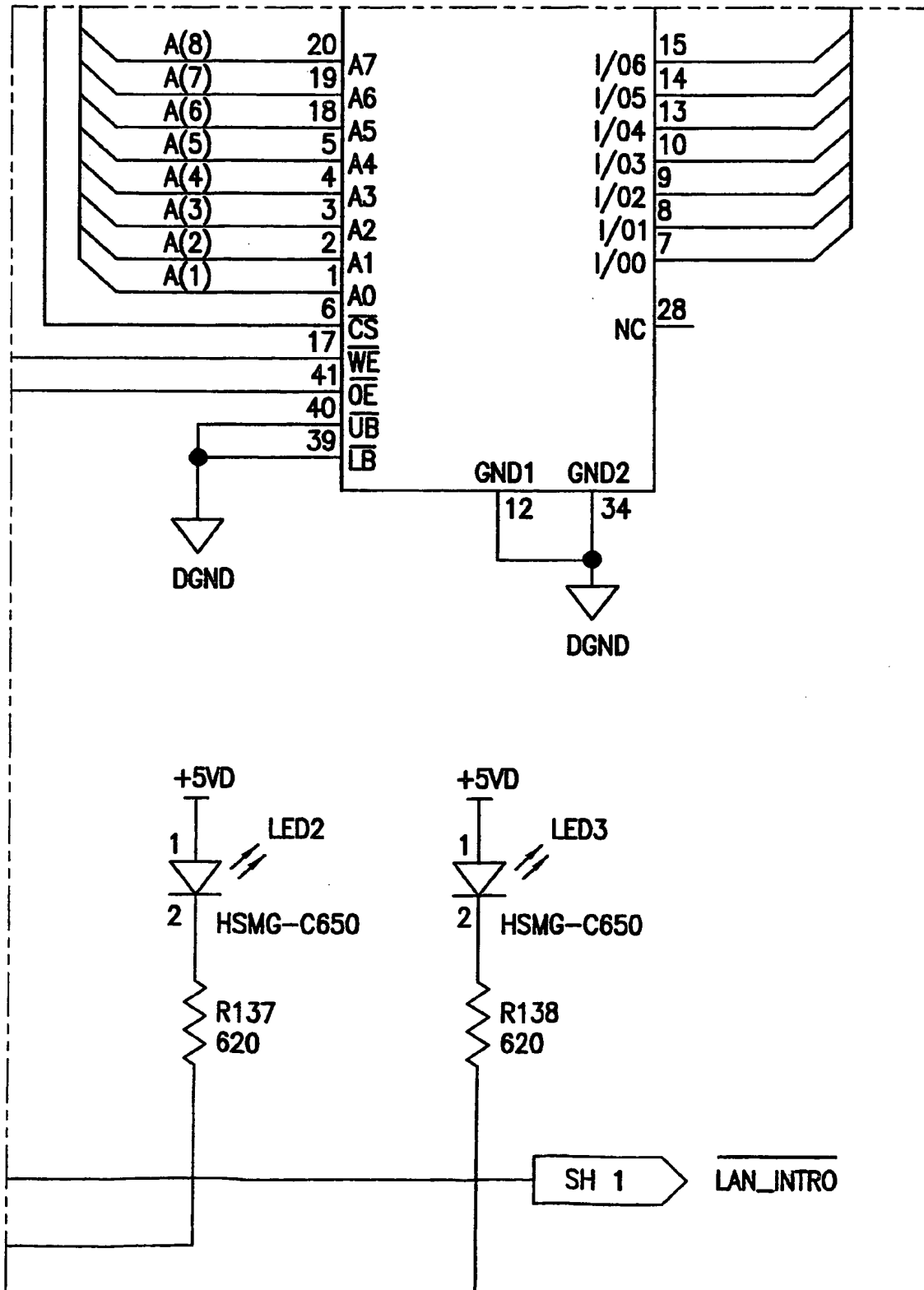
## FIG. 63J



# REPLACEMENT SHEET

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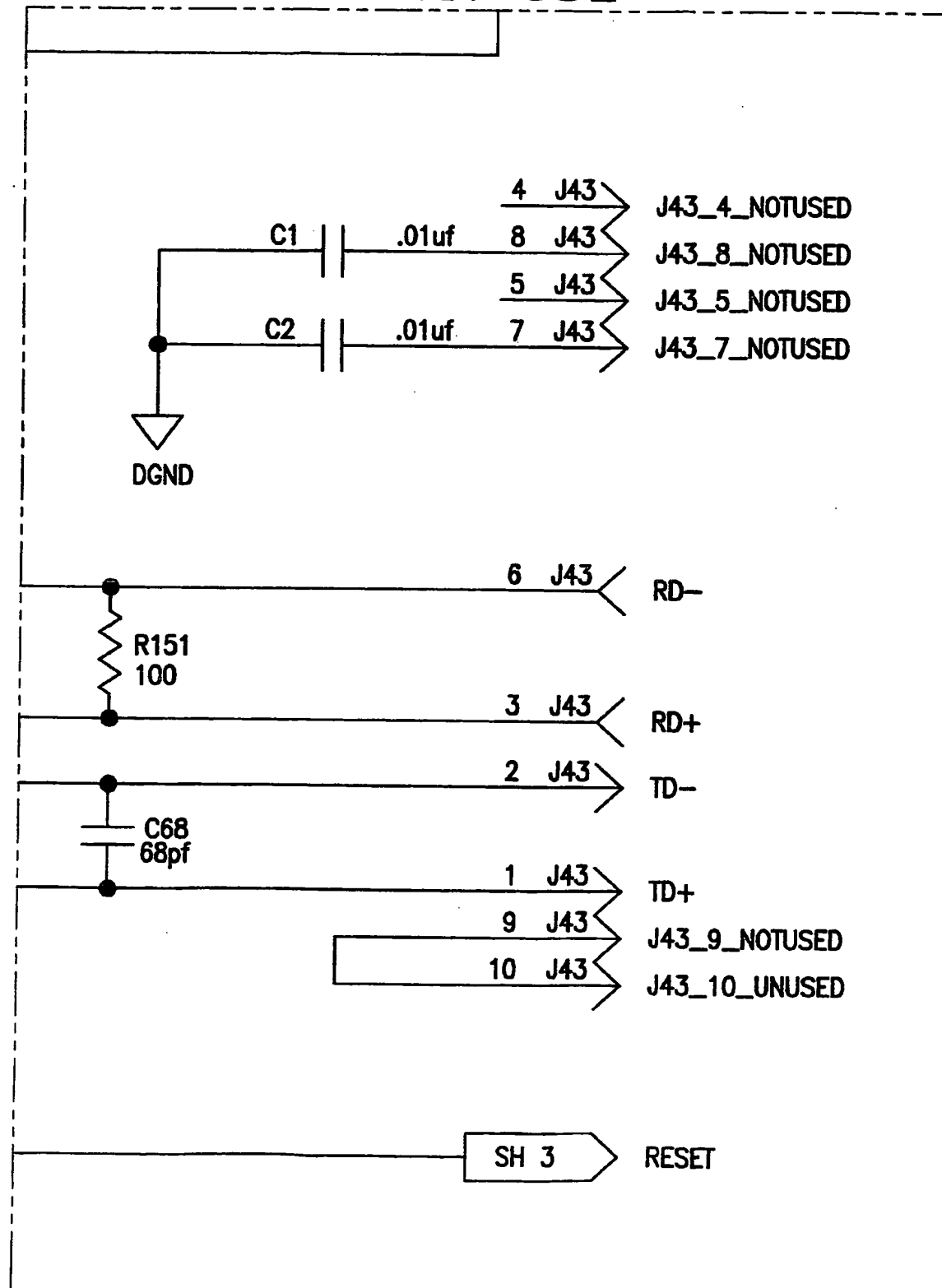
## FIG. 63K



# REPLACEMENT SHEET

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## FIG. 63L



# REPLACEMENT SHEET

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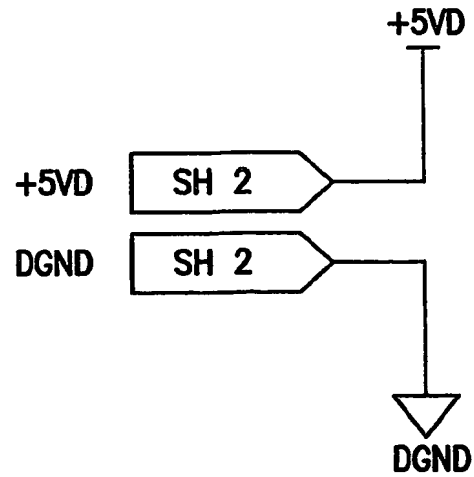
## FIG. 64

FIG. 64A	FIG. 64D	FIG. 64G	FIG. 64J	FIG. 64M	FIG. 64P
FIG. 64B	FIG. 64E	FIG. 64H	FIG. 64K	FIG. 64N	FIG. 64Q
FIG. 64C	FIG. 64F	FIG. 64I	FIG. 64L	FIG. 64O	

REPLACEMENT SHEET

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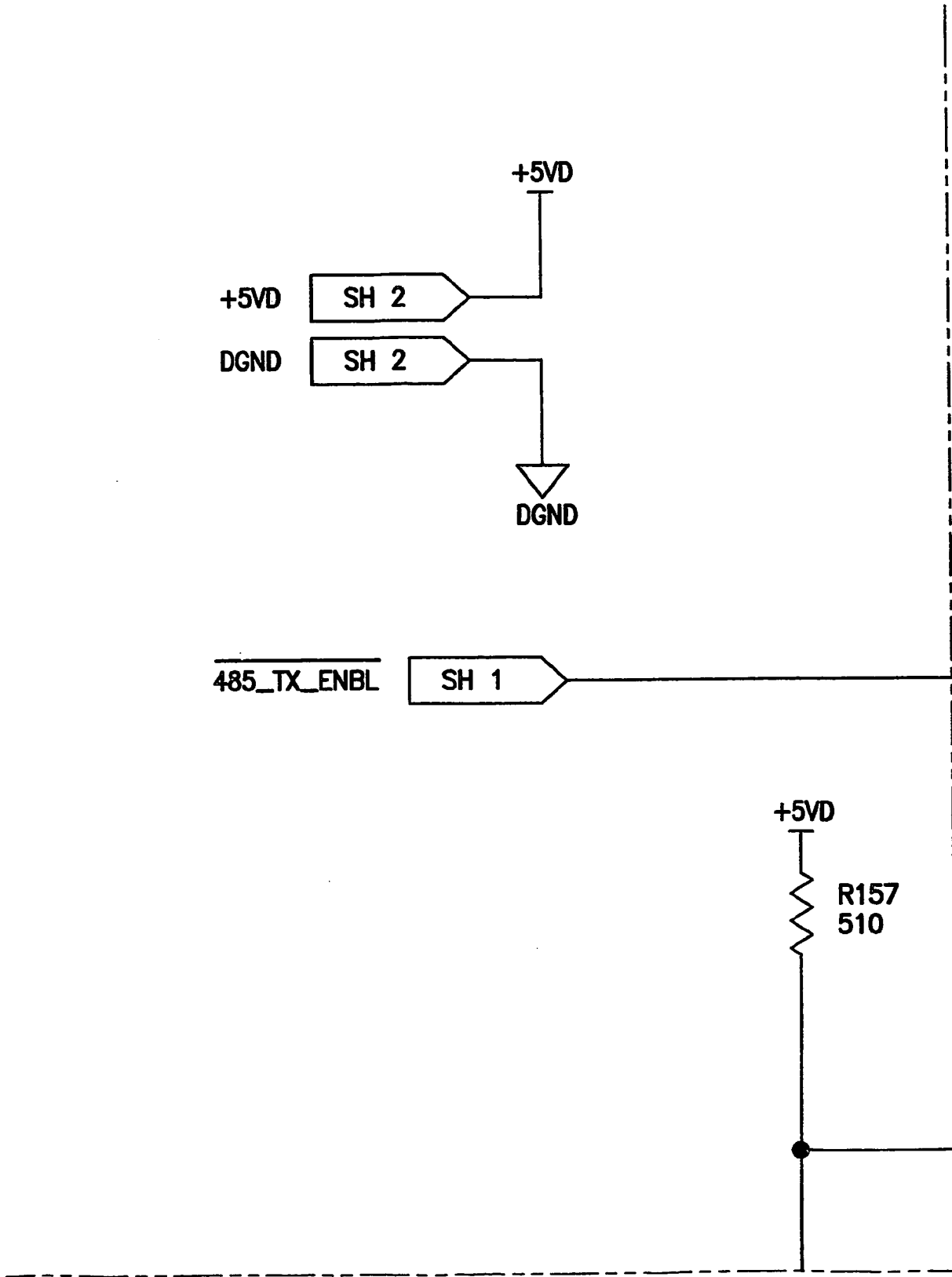
FIG. 64A



485\_TX\_ENBL

SH 1

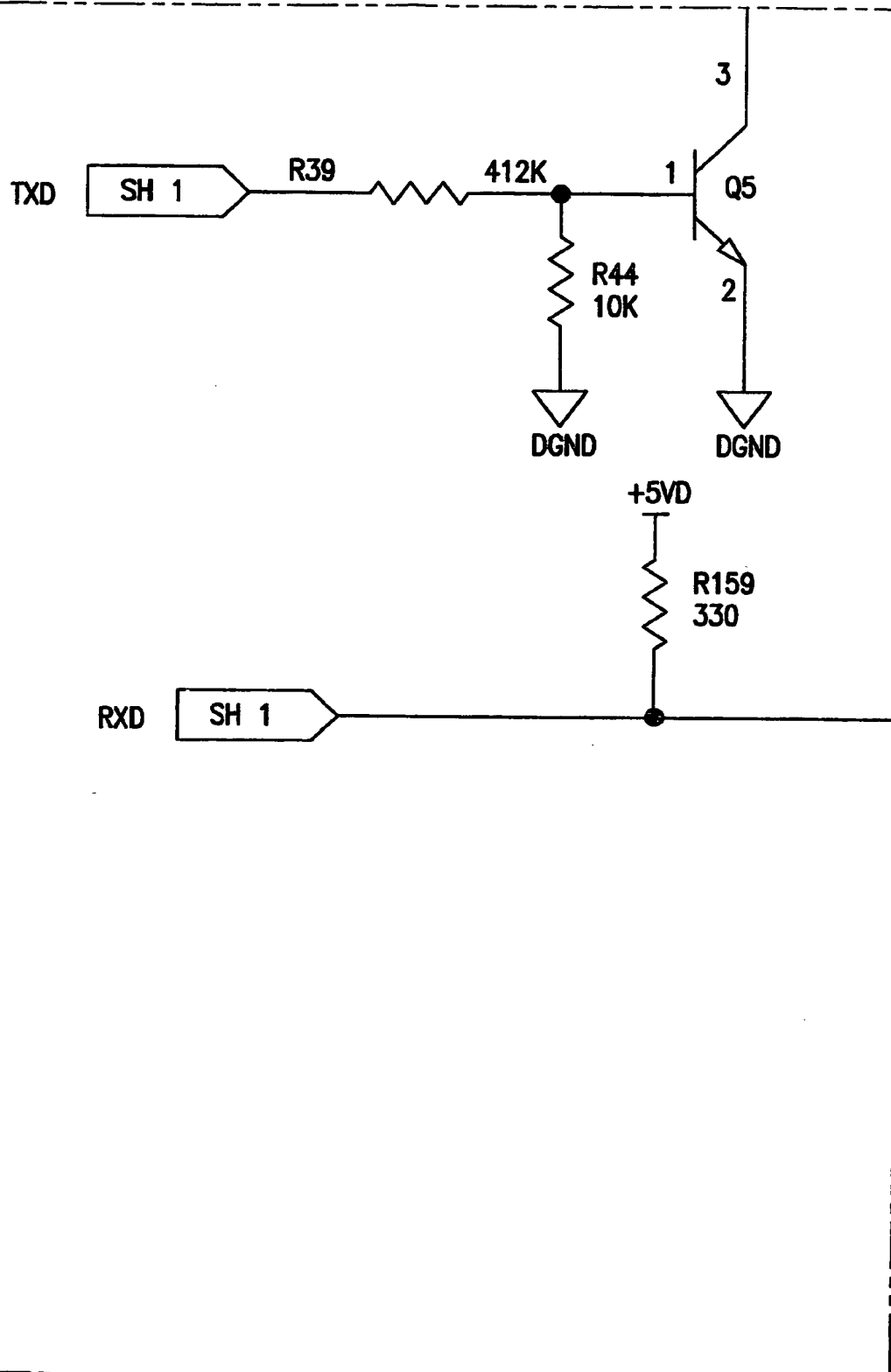
+5VD  
R157  
510



REPLACEMENT SHEET

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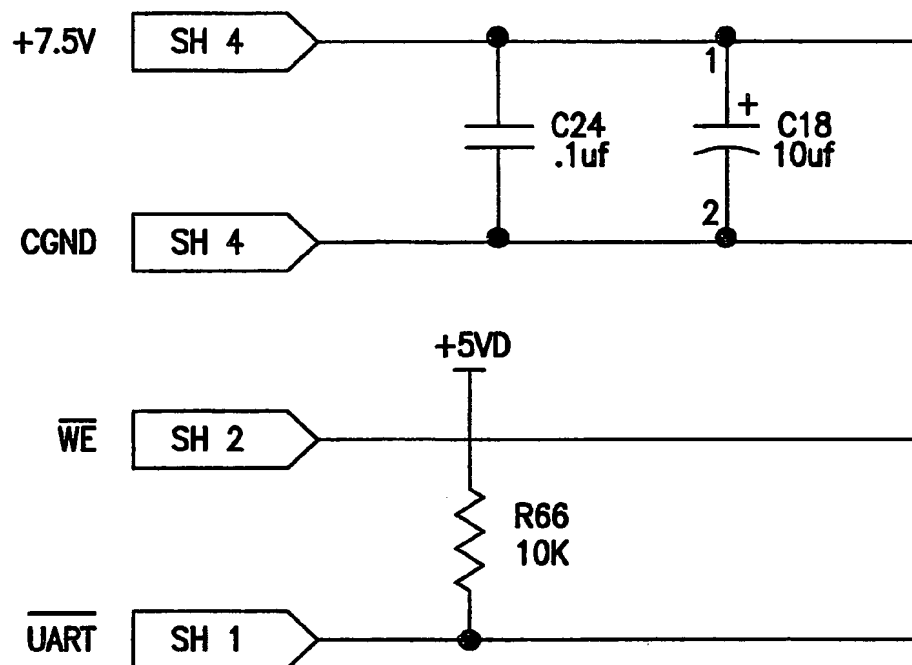
FIG. 64B



# REPLACEMENT SHEET

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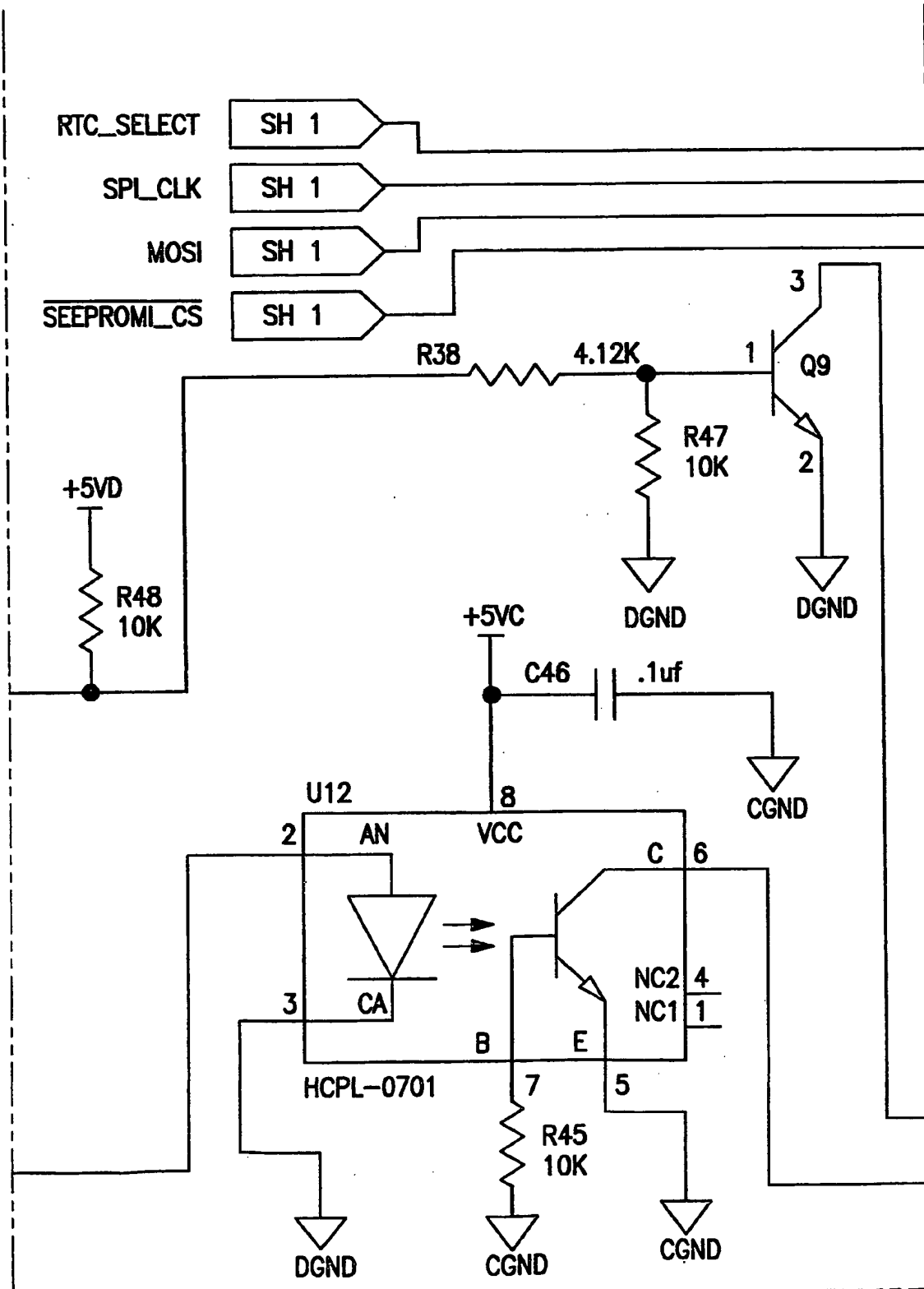
## FIG. 64C



# REPLACEMENT SHEET

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## FIG. 64D

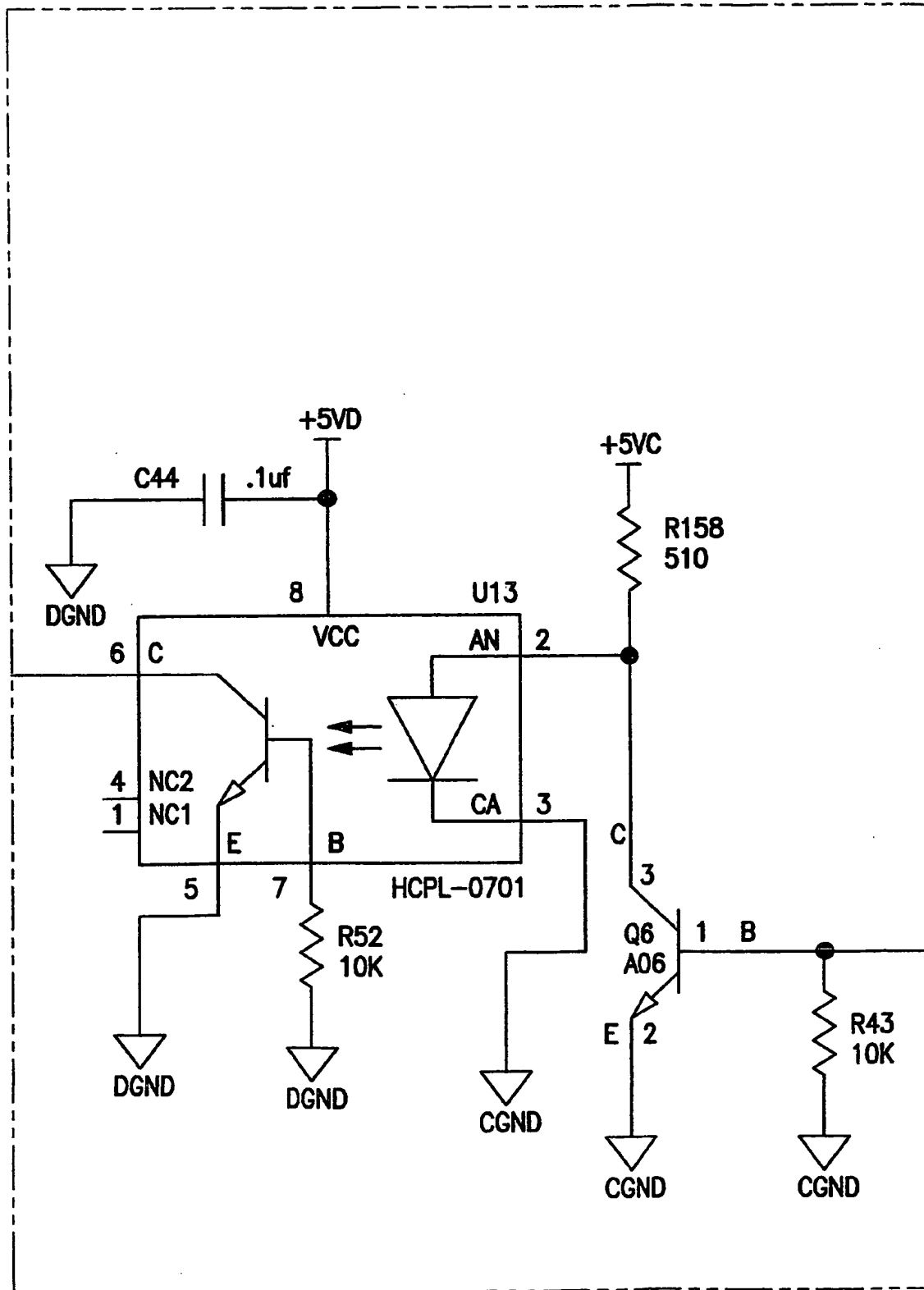




# REPLACEMENT SHEET

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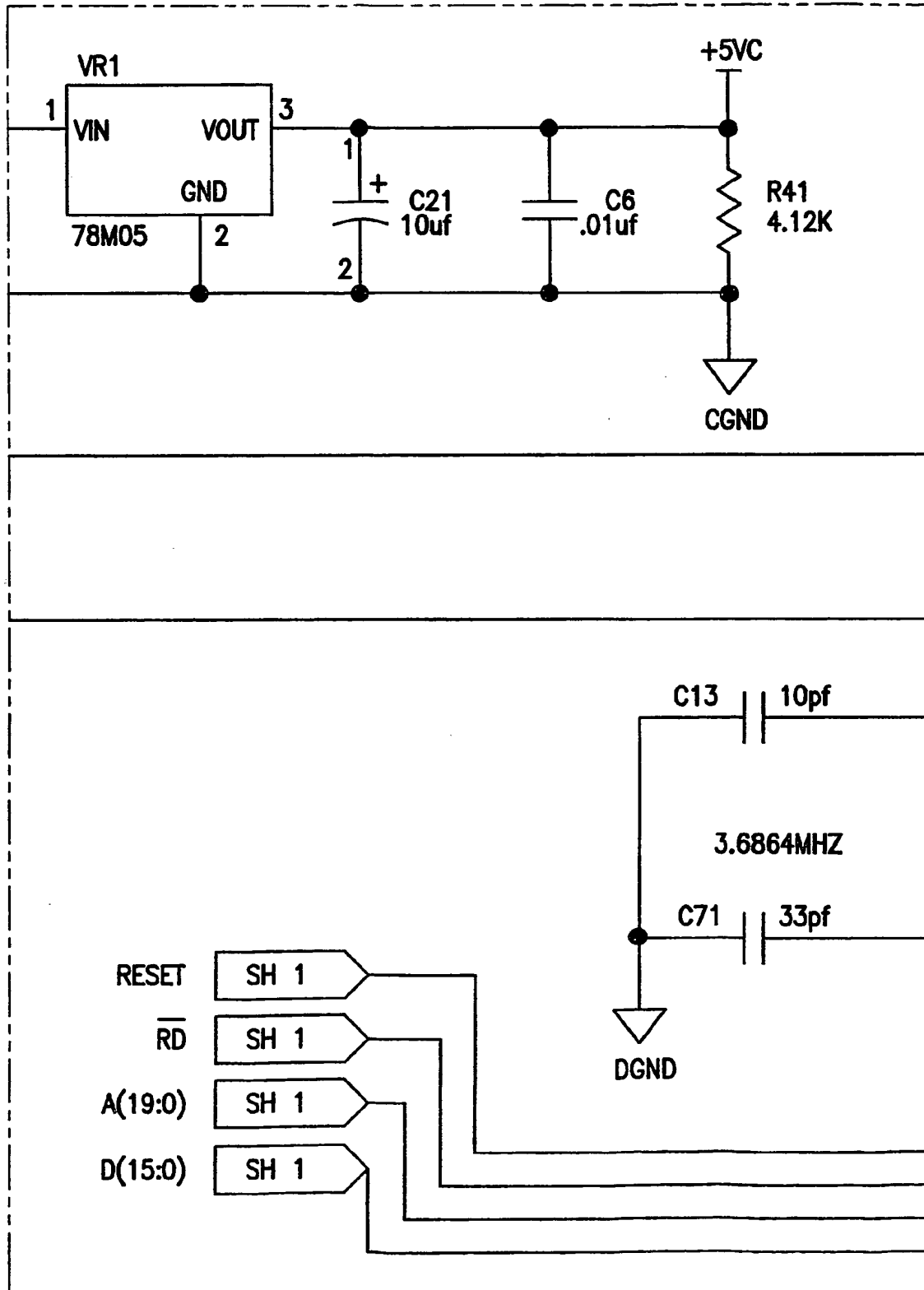
## FIG. 64E



# REPLACEMENT SHEET

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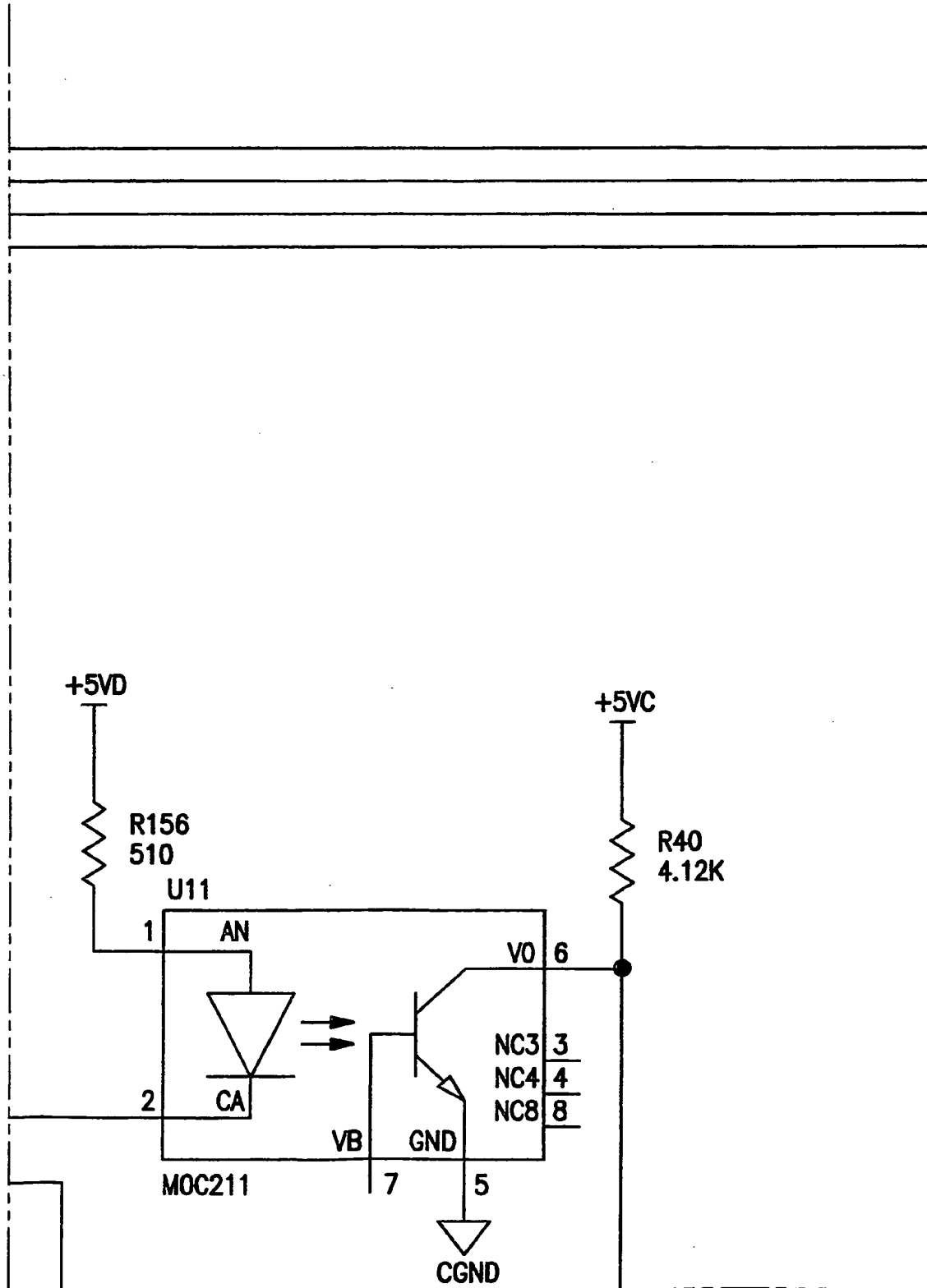
## FIG. 64F



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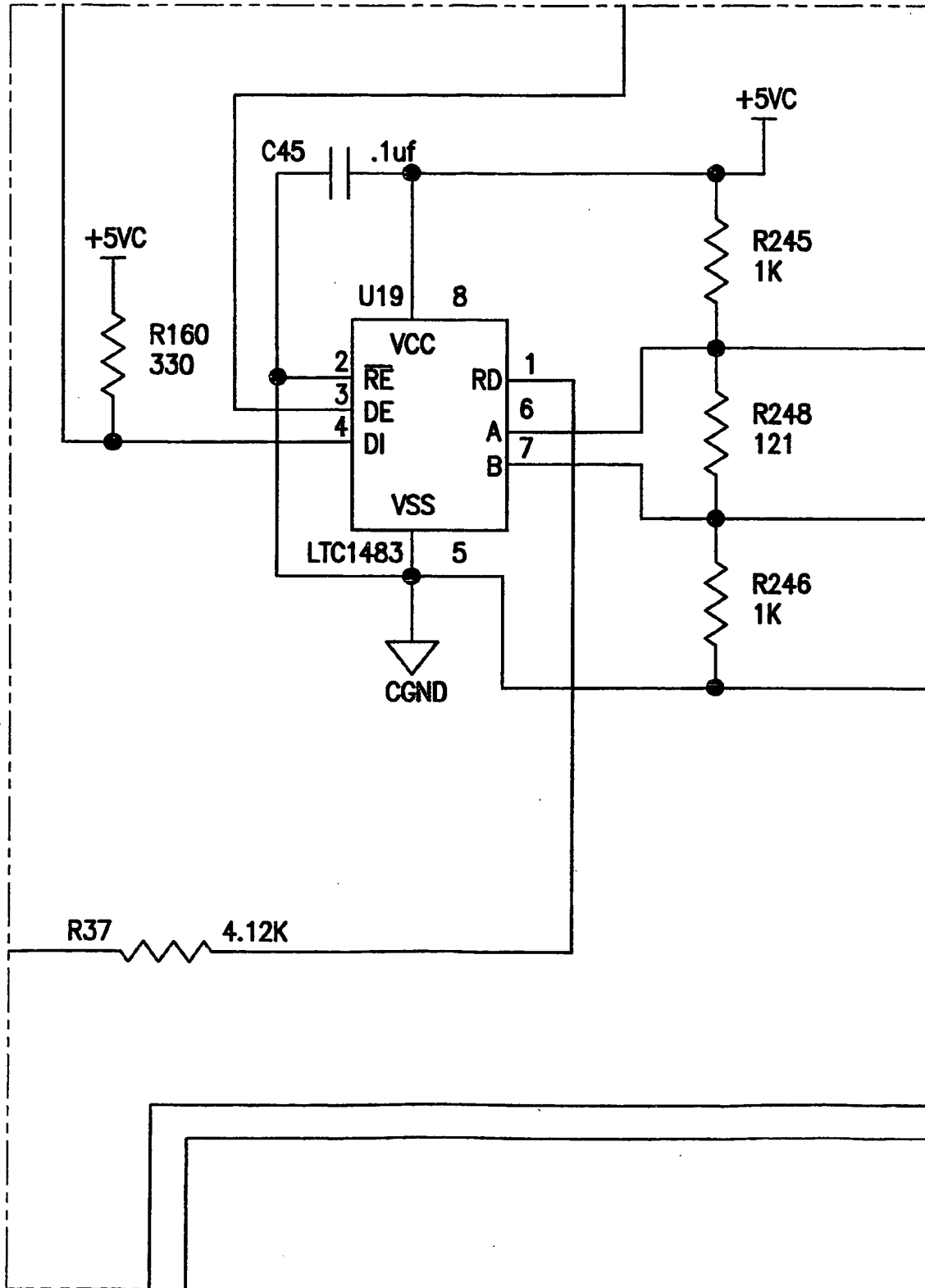
FIG. 64G



# REPLACEMENT SHEET

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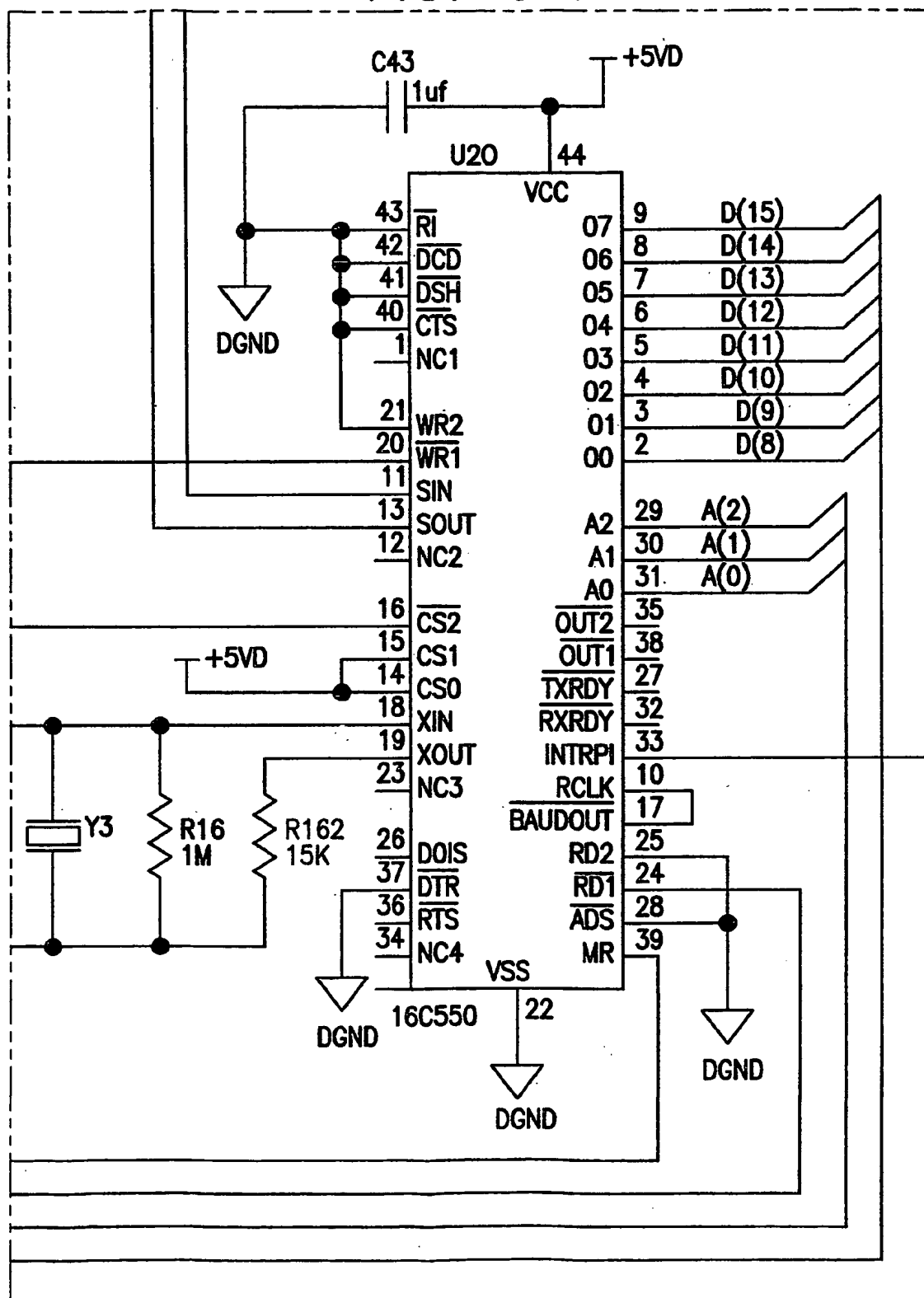
## FIG. 64H



# REPLACEMENT SHEET

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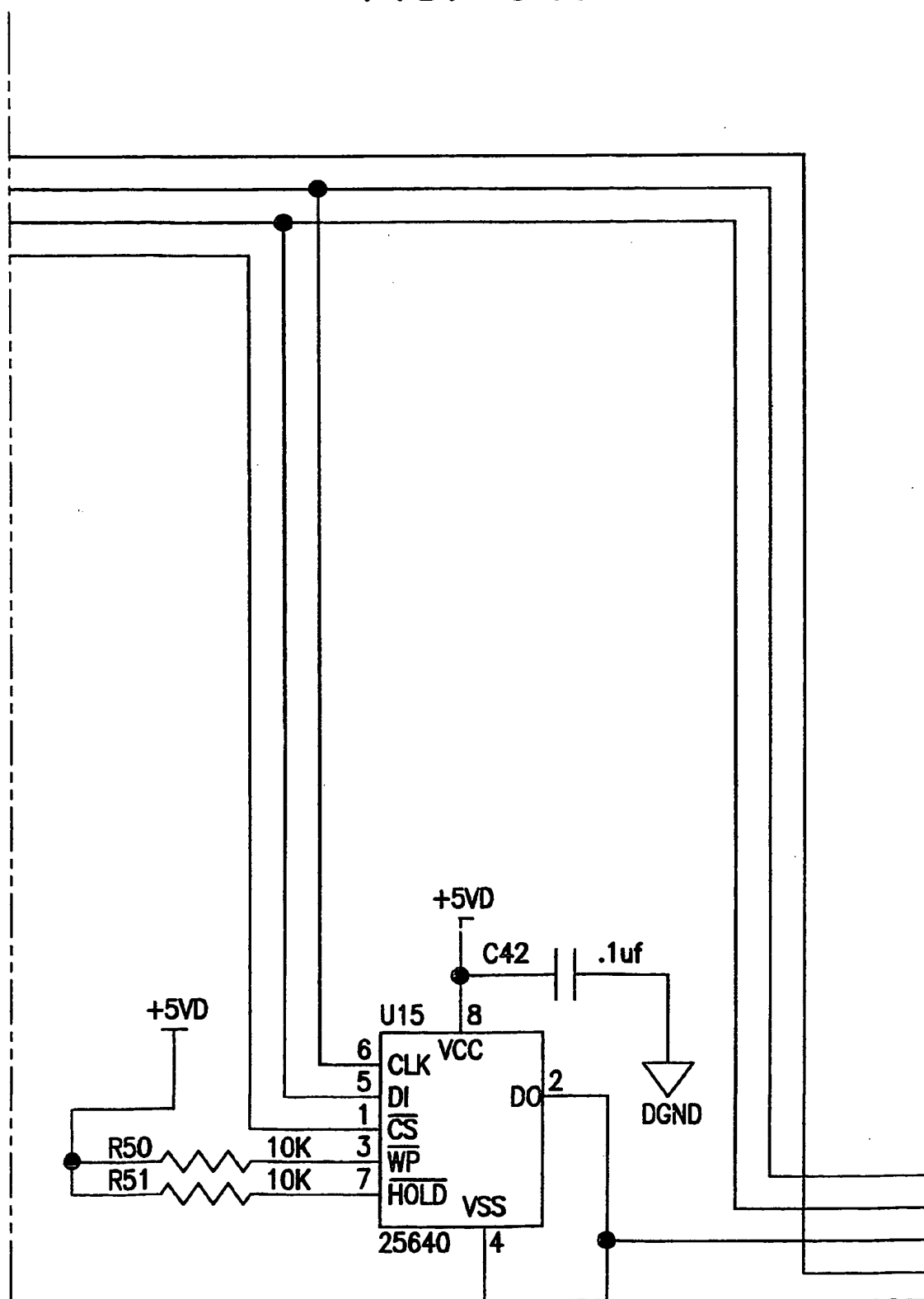
## FIG. 64I



# REPLACEMENT SHEET

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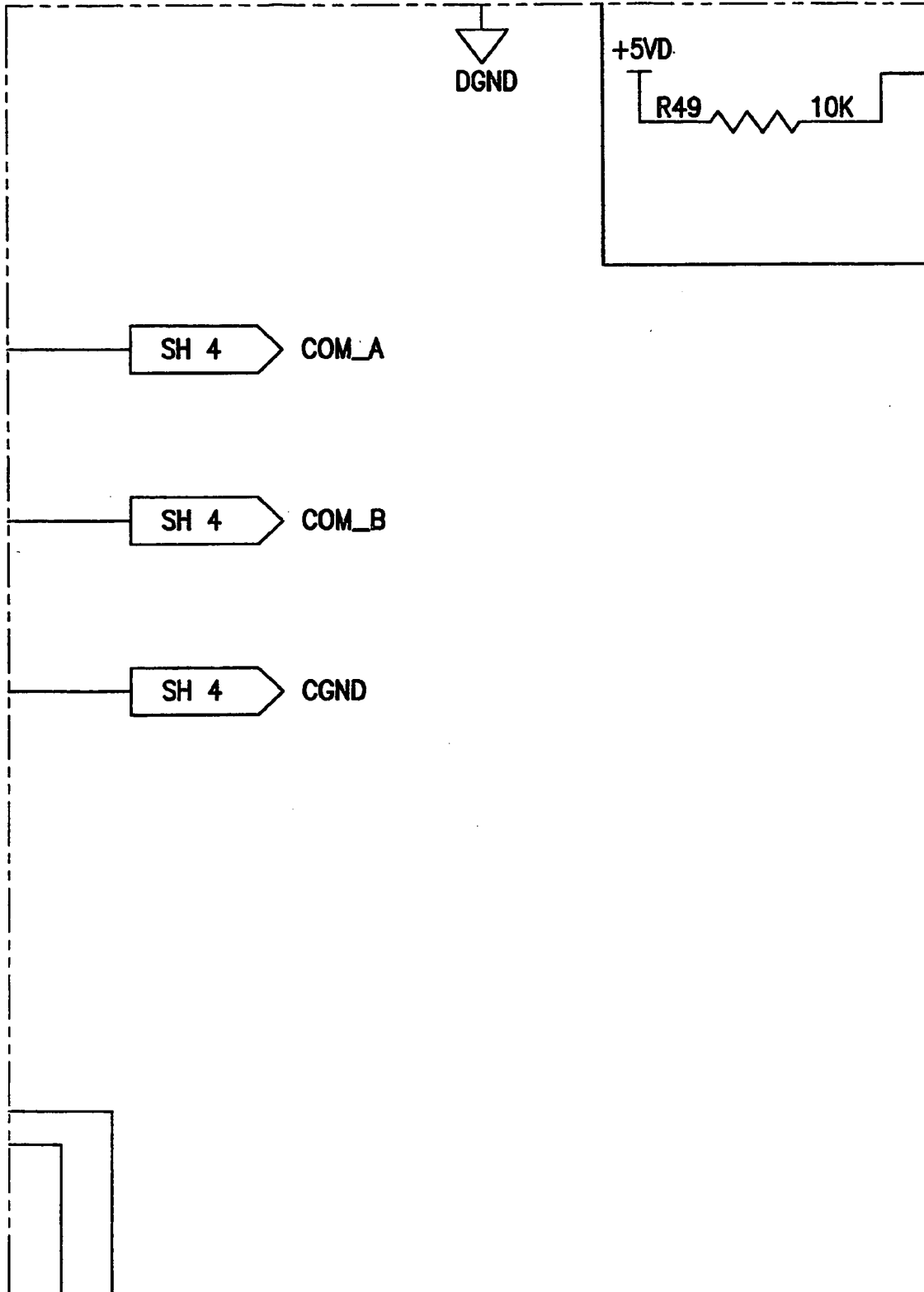
## FIG. 64J



REPLACEMENT SHEET

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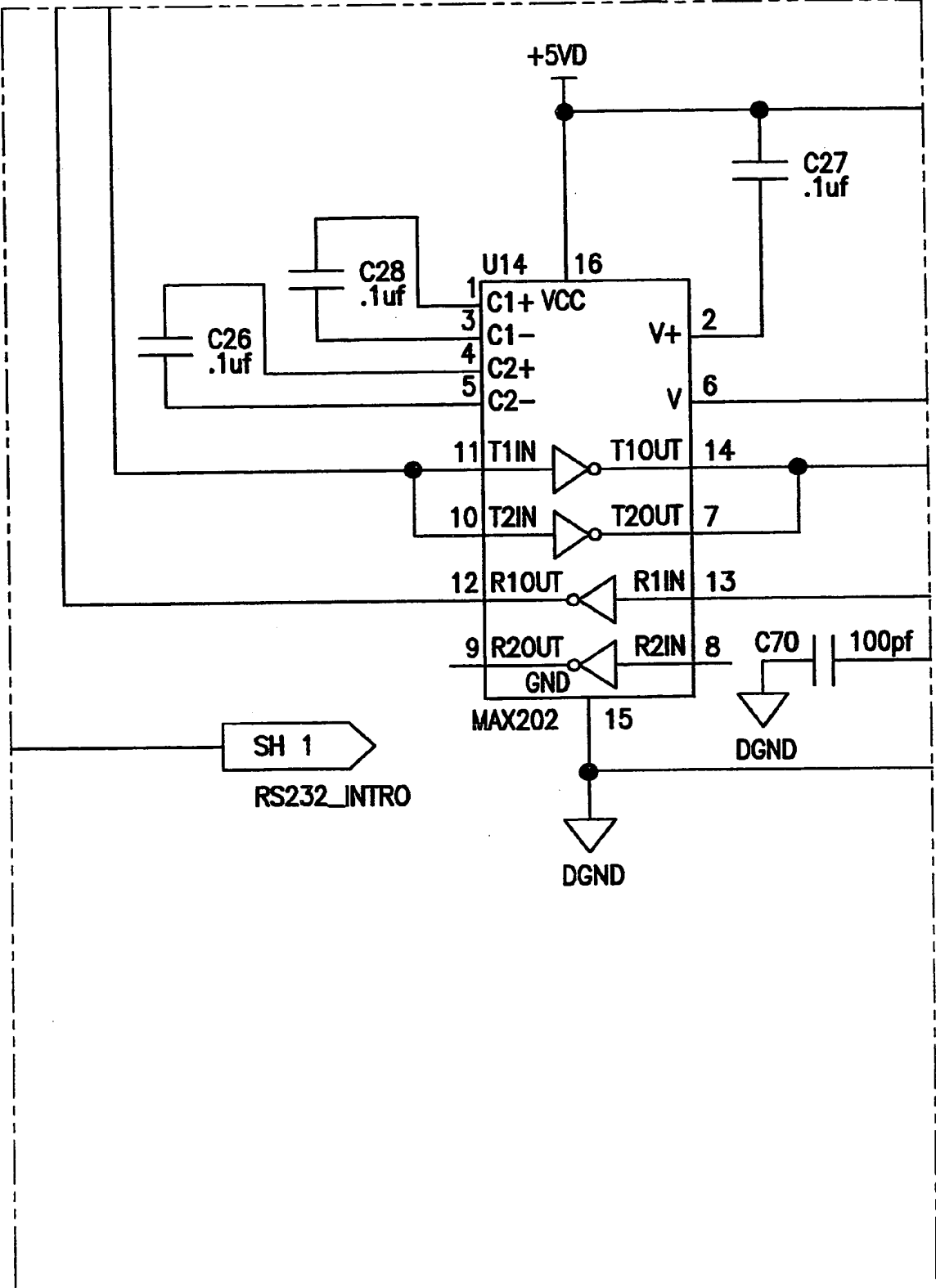
FIG. 64K



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FIG. 64L

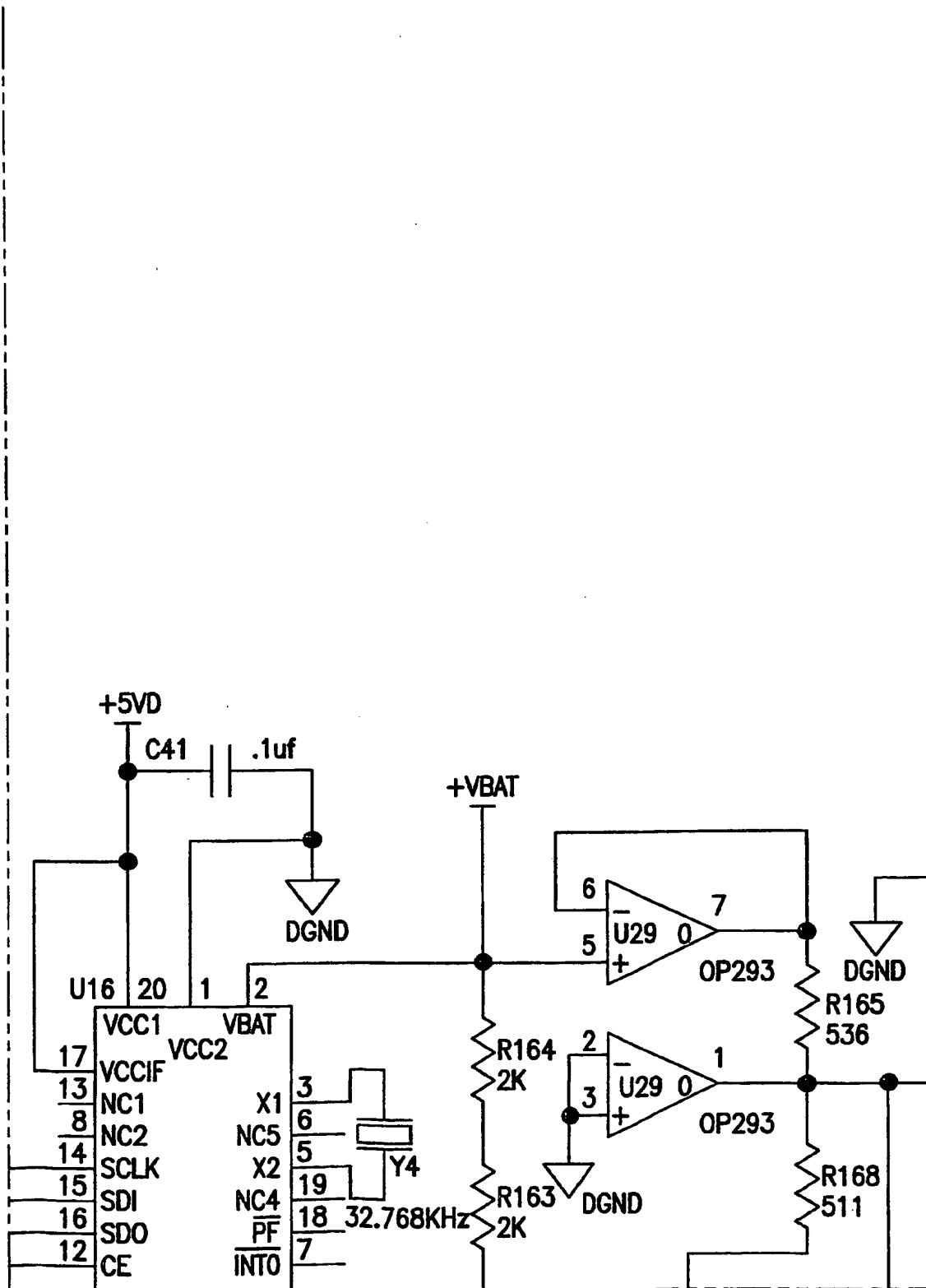




# REPLACEMENT SHEET

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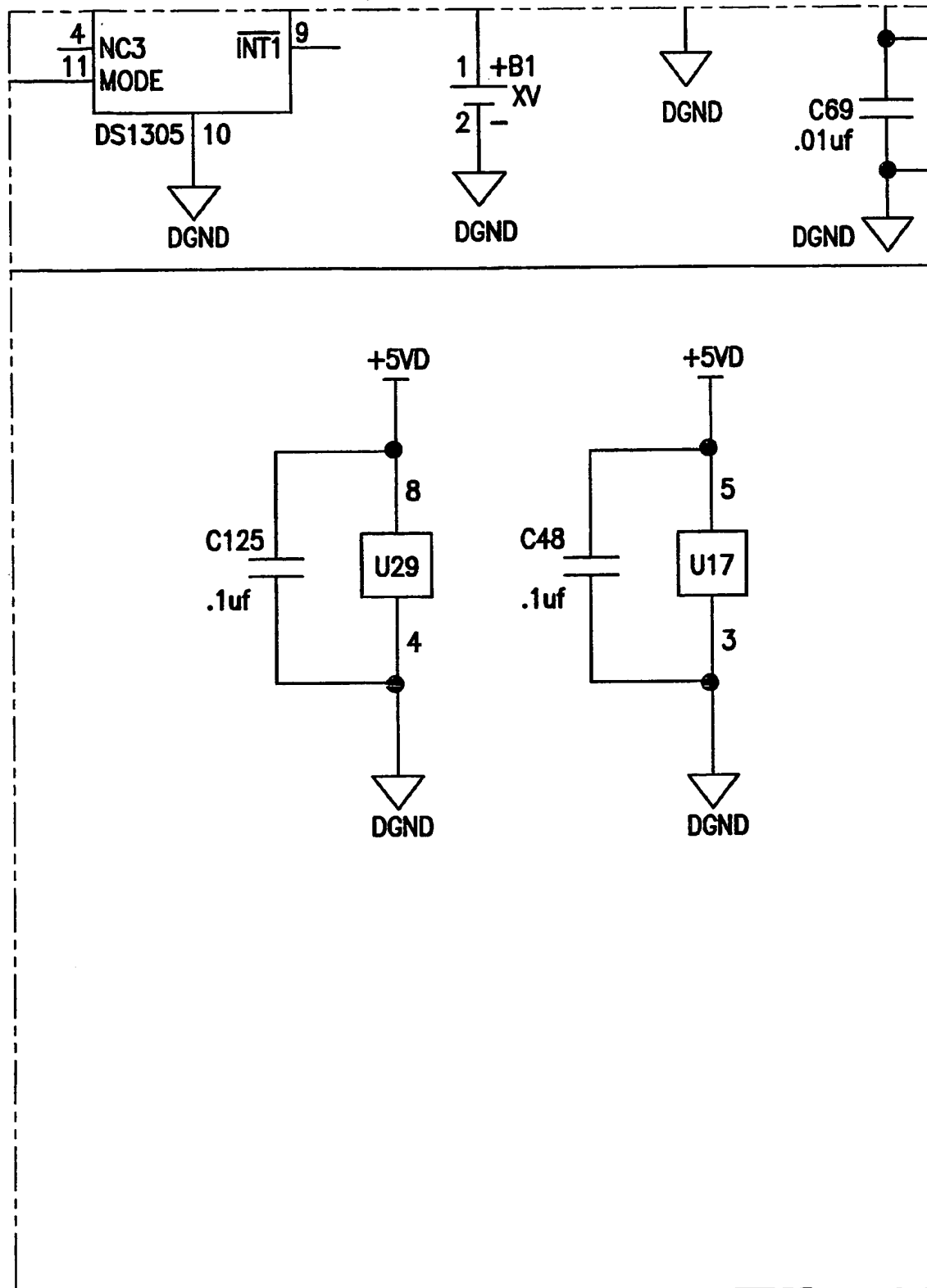
## FIG. 64M



# REPLACEMENT SHEET

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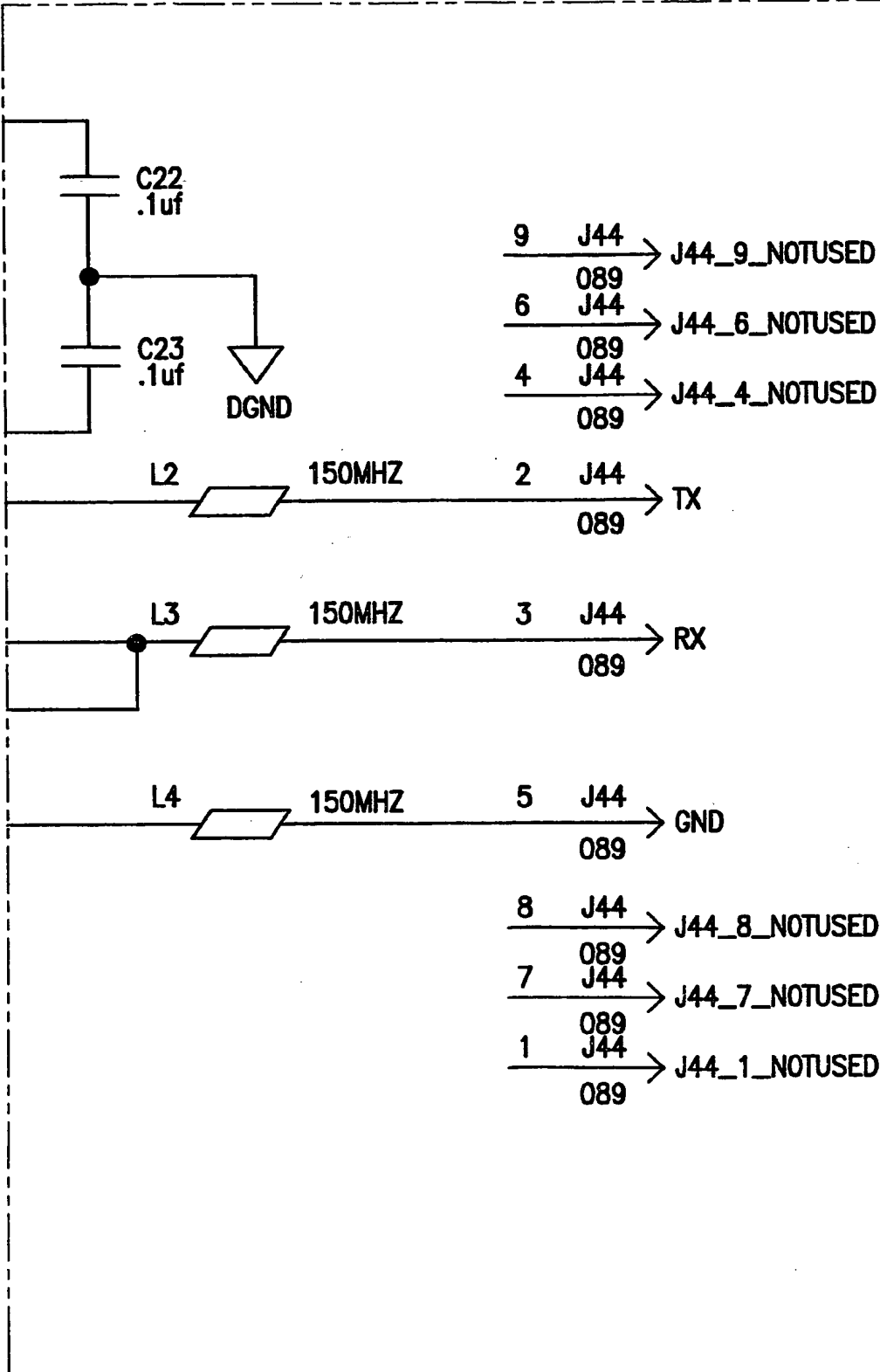
## FIG. 64N



REPLACEMENT SHEET

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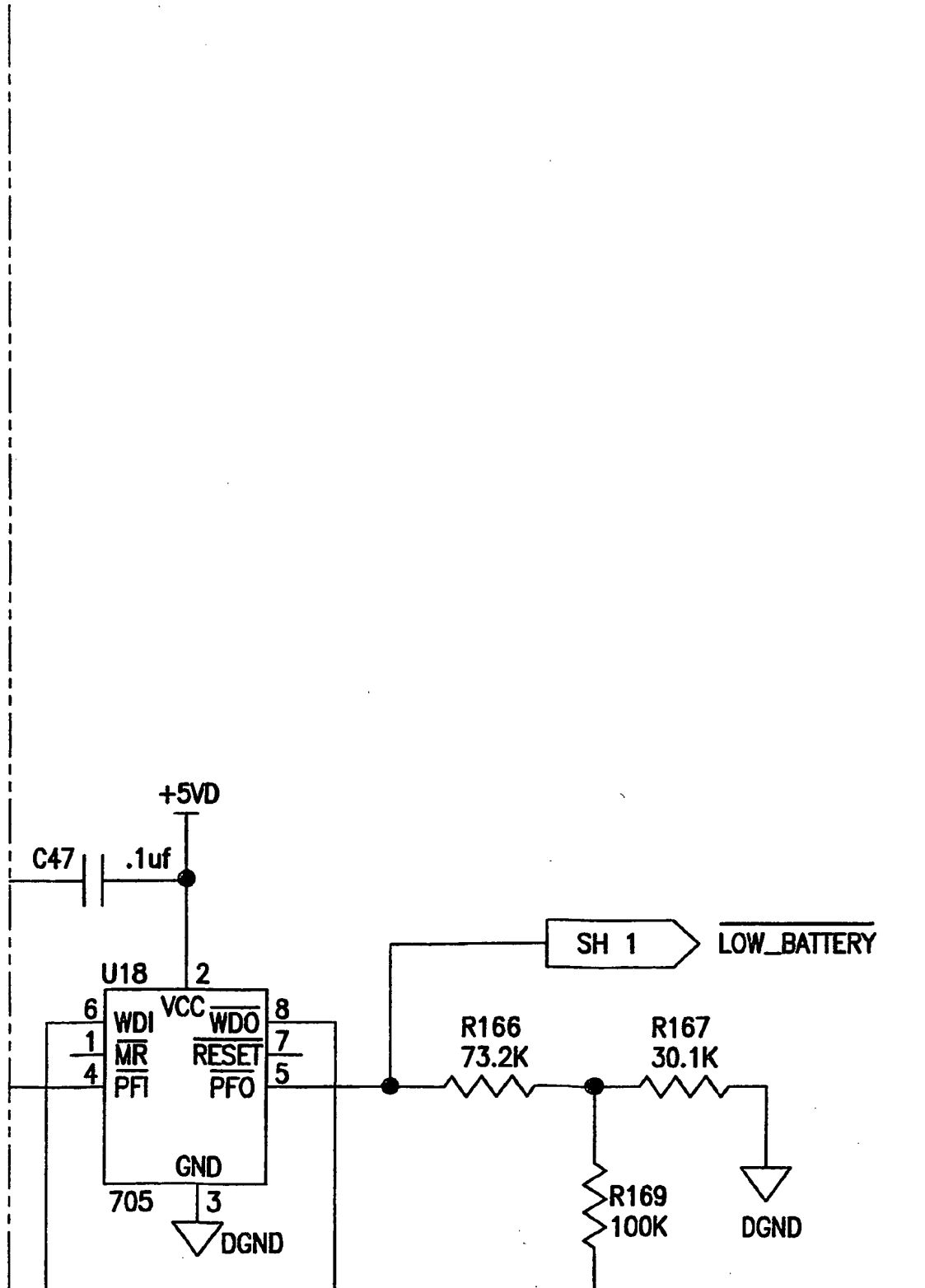
FIG. 640



REPLACEMENT SHEET

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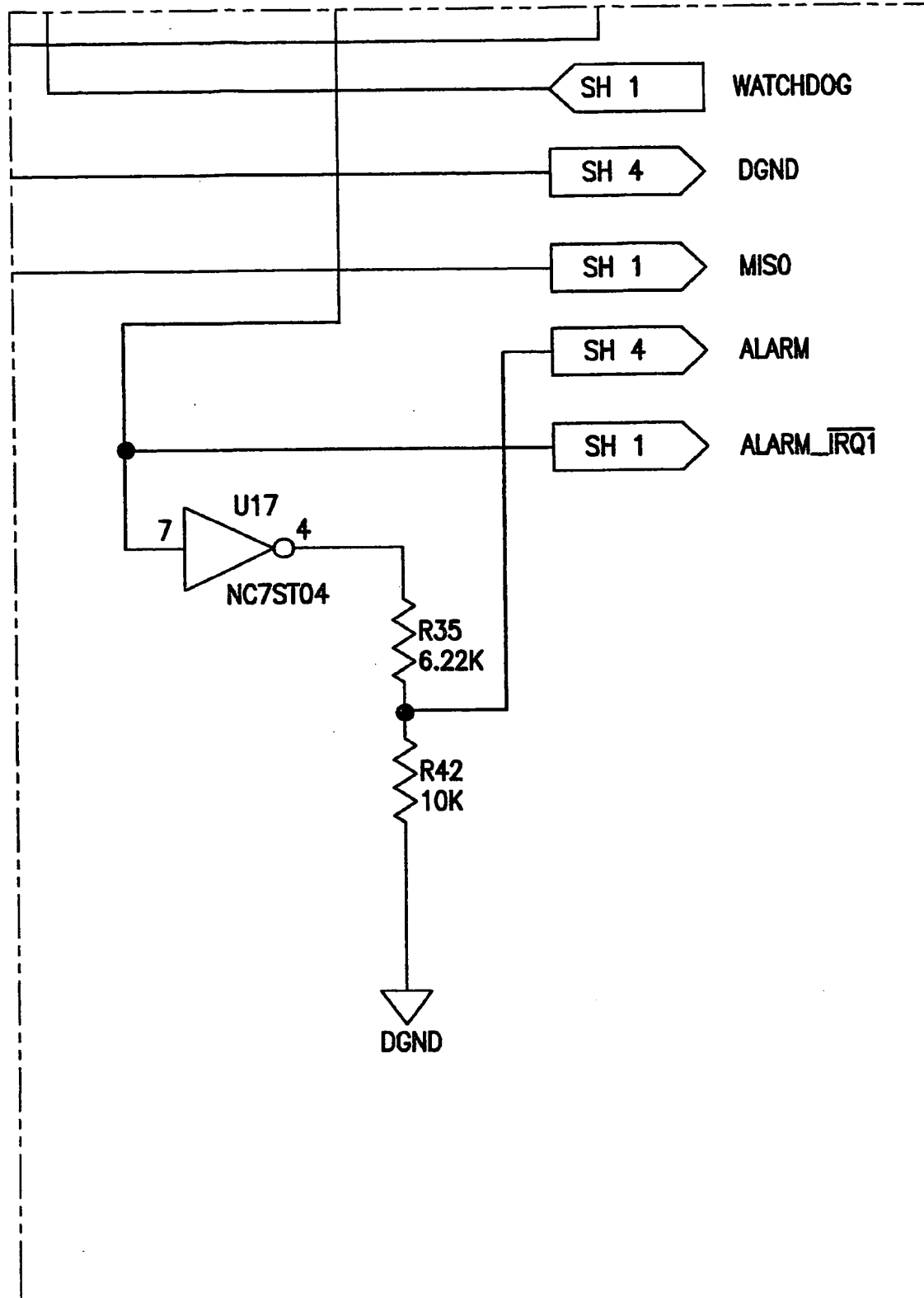
FIG. 64P



# REPLACEMENT SHEET

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## FIG. 64Q



# REPLACEMENT SHEET

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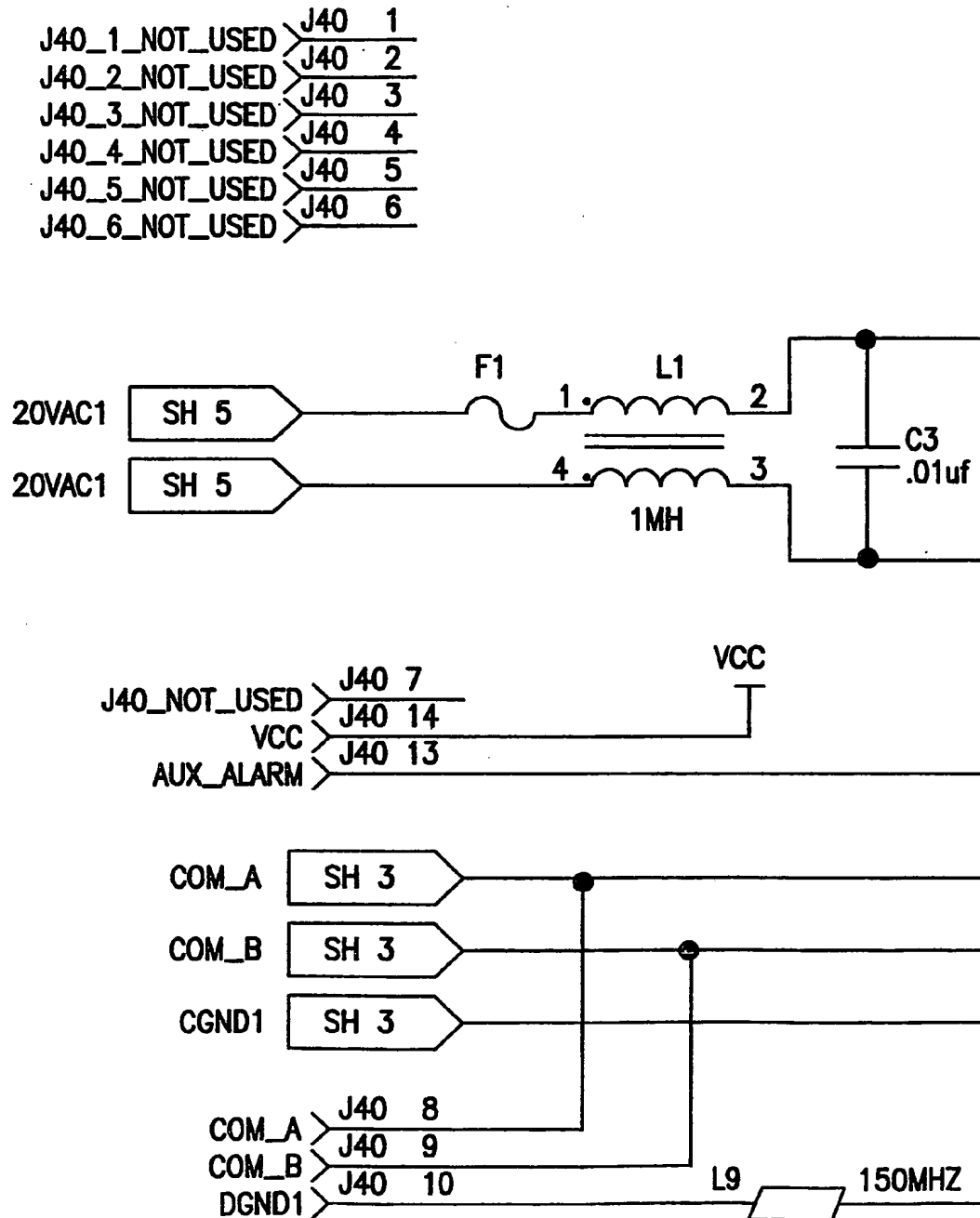
## FIG. 65

	FIG. 65C	FIG. 65F	FIG. 65H	FIG. 65J	FIG. 65L
FIG. 65A	FIG. 65D	FIG. 65G	FIG. 65I	FIG. 65K	
FIG. 65B	FIG. 65E				

# REPLACEMENT SHEET

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## FIG. 65A



# REPLACEMENT SHEET

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## FIG. 65B

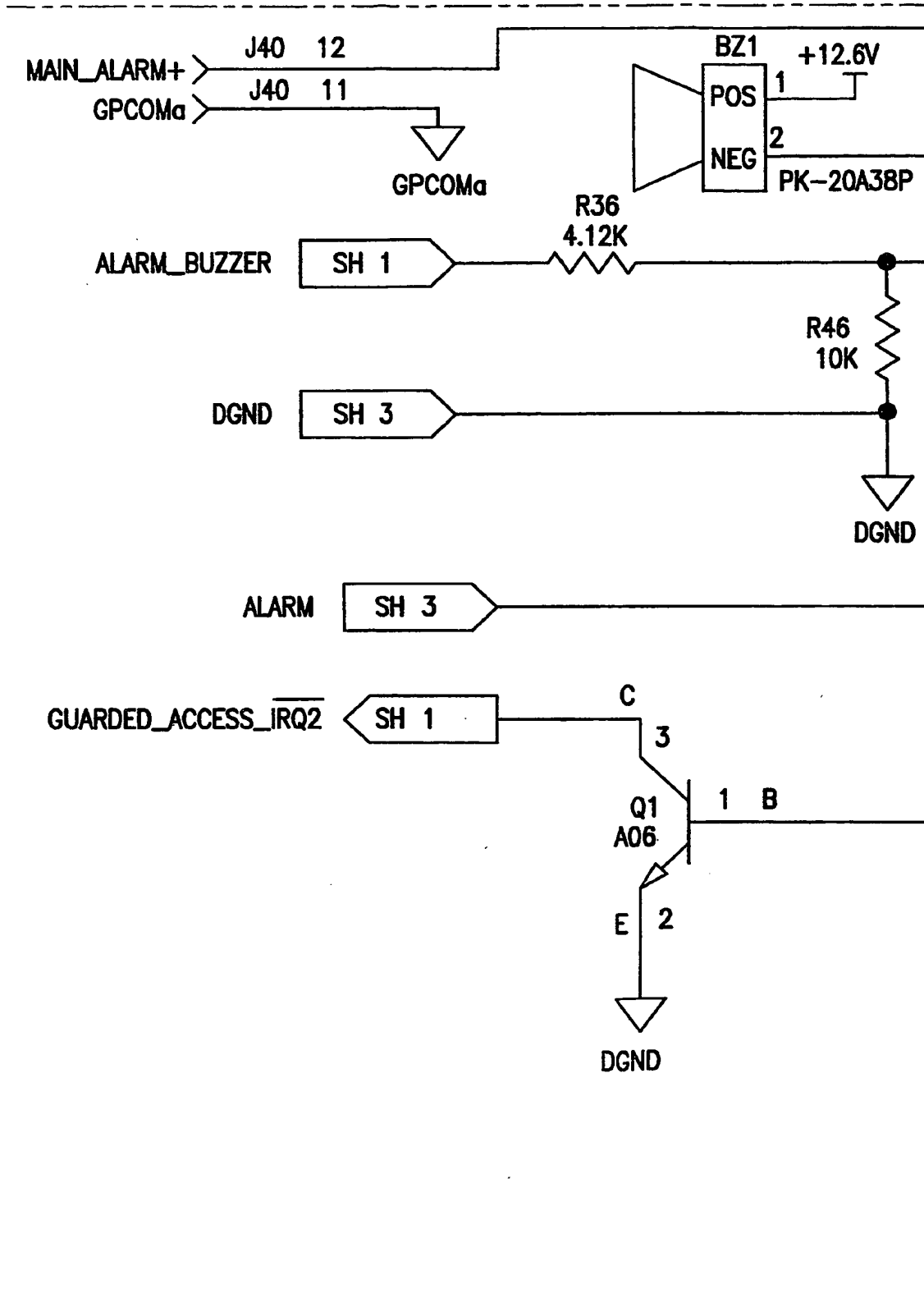
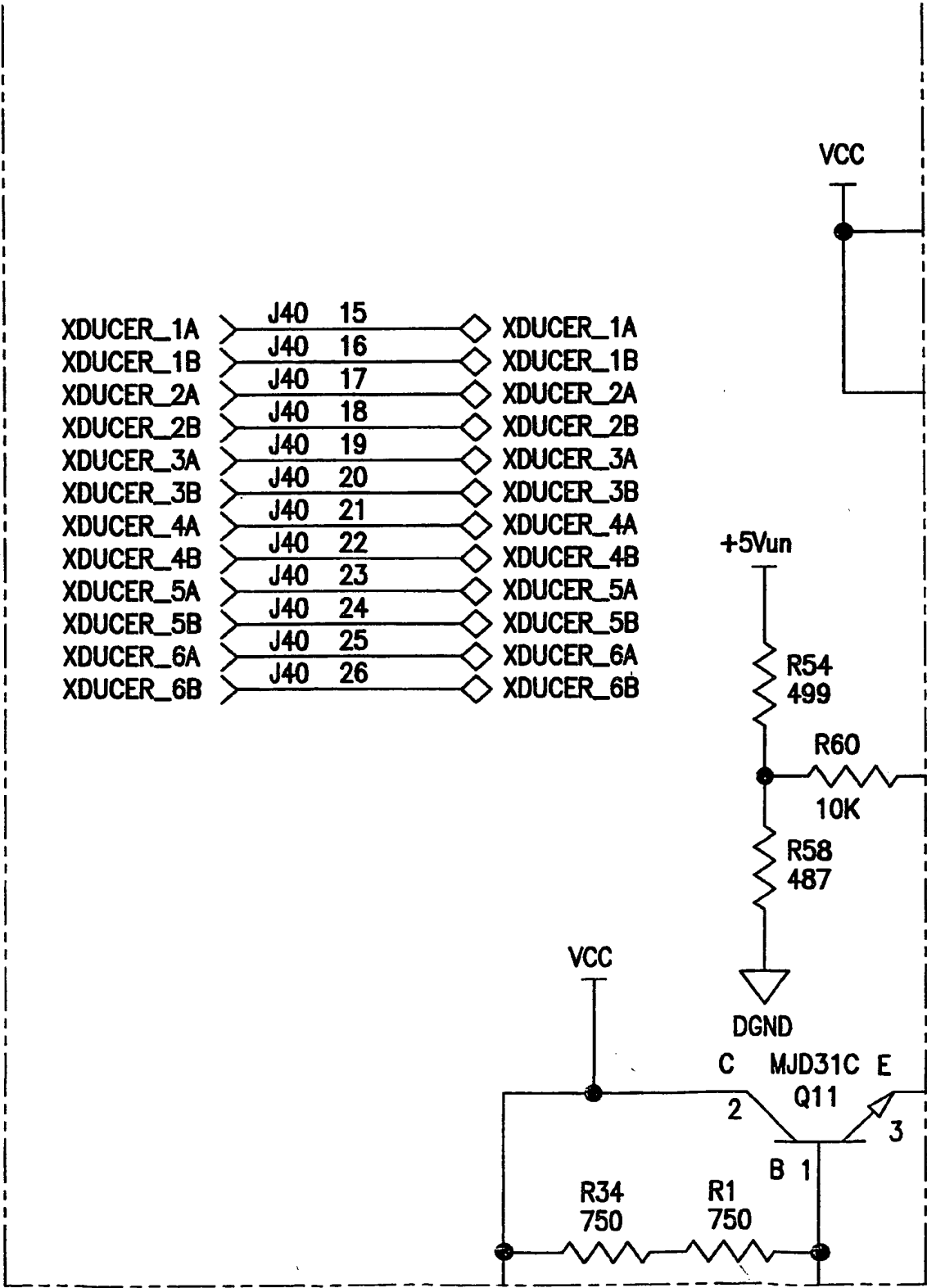




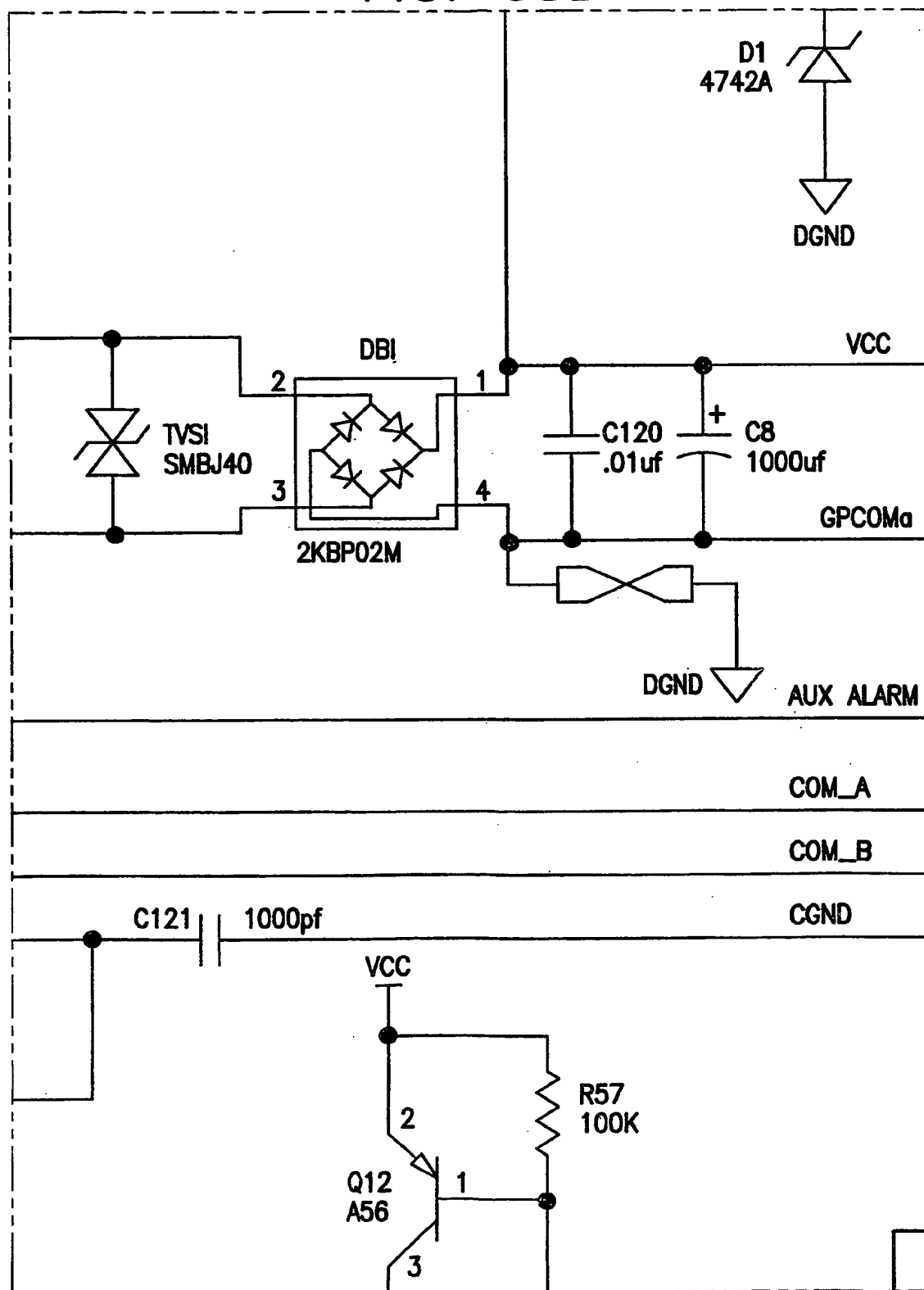
FIG. 65C



# REPLACEMENT SHEET

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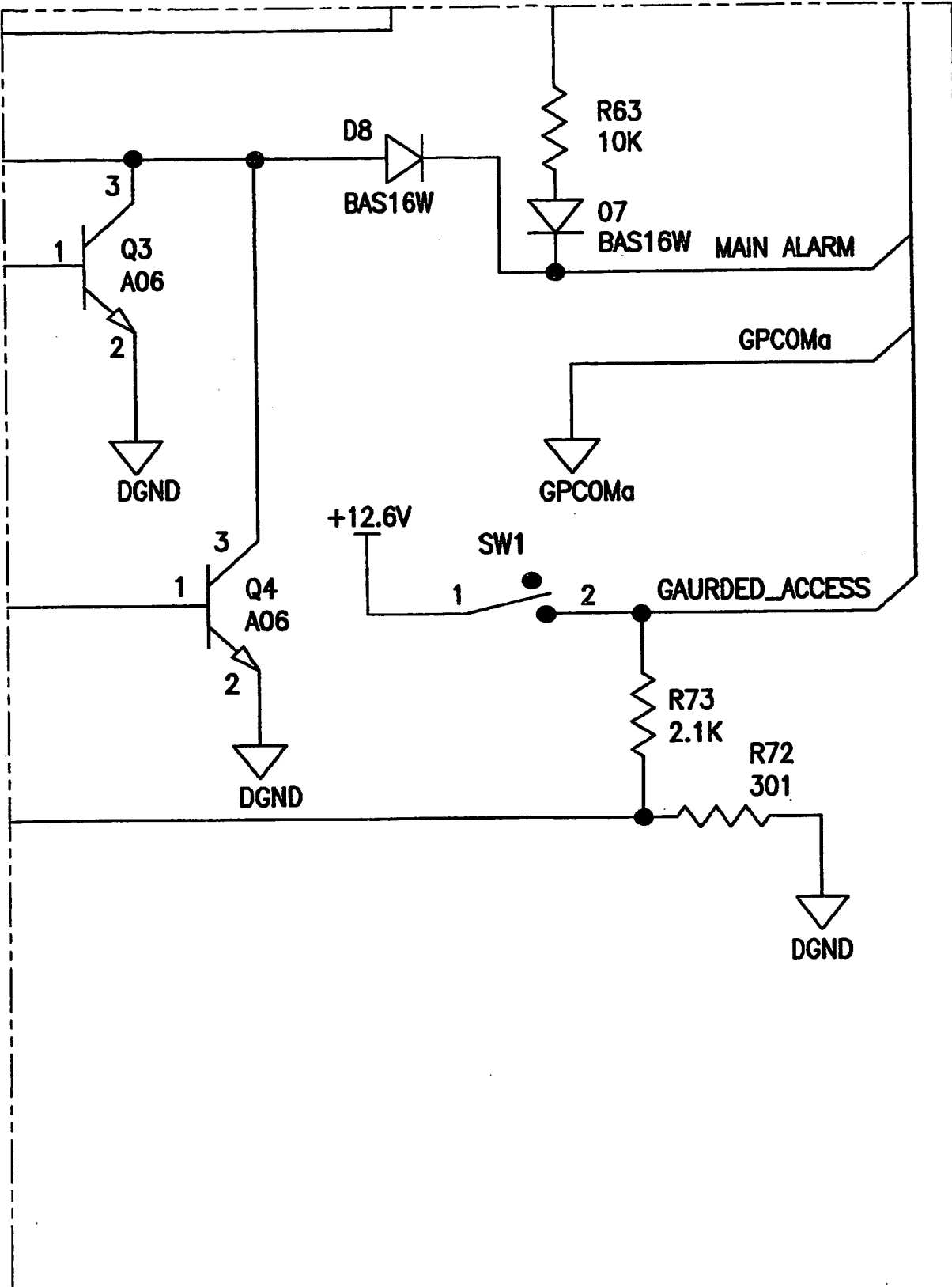
## FIG. 65D



REPLACEMENT SHEET

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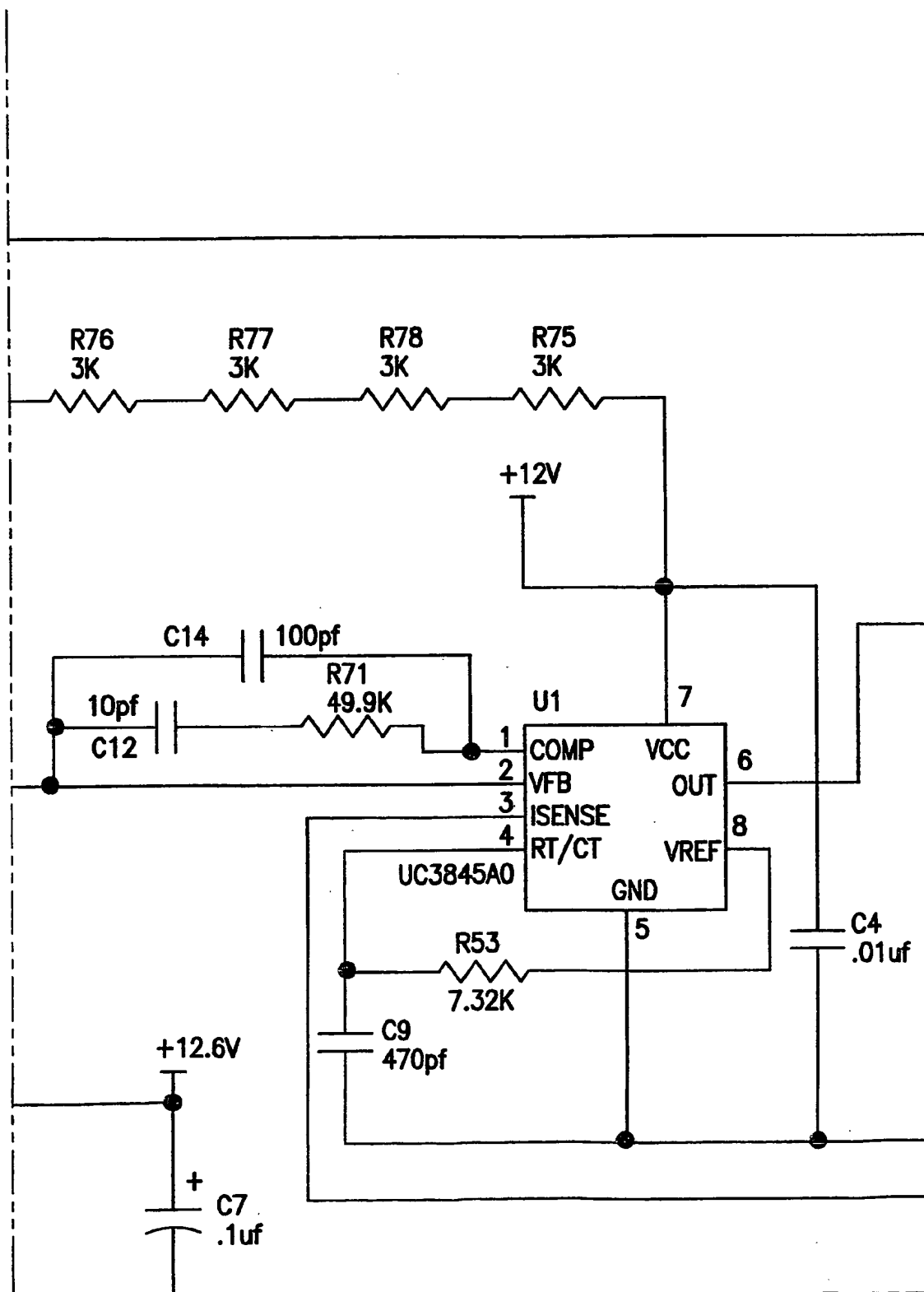
FIG. 65E



# REPLACEMENT SHEET

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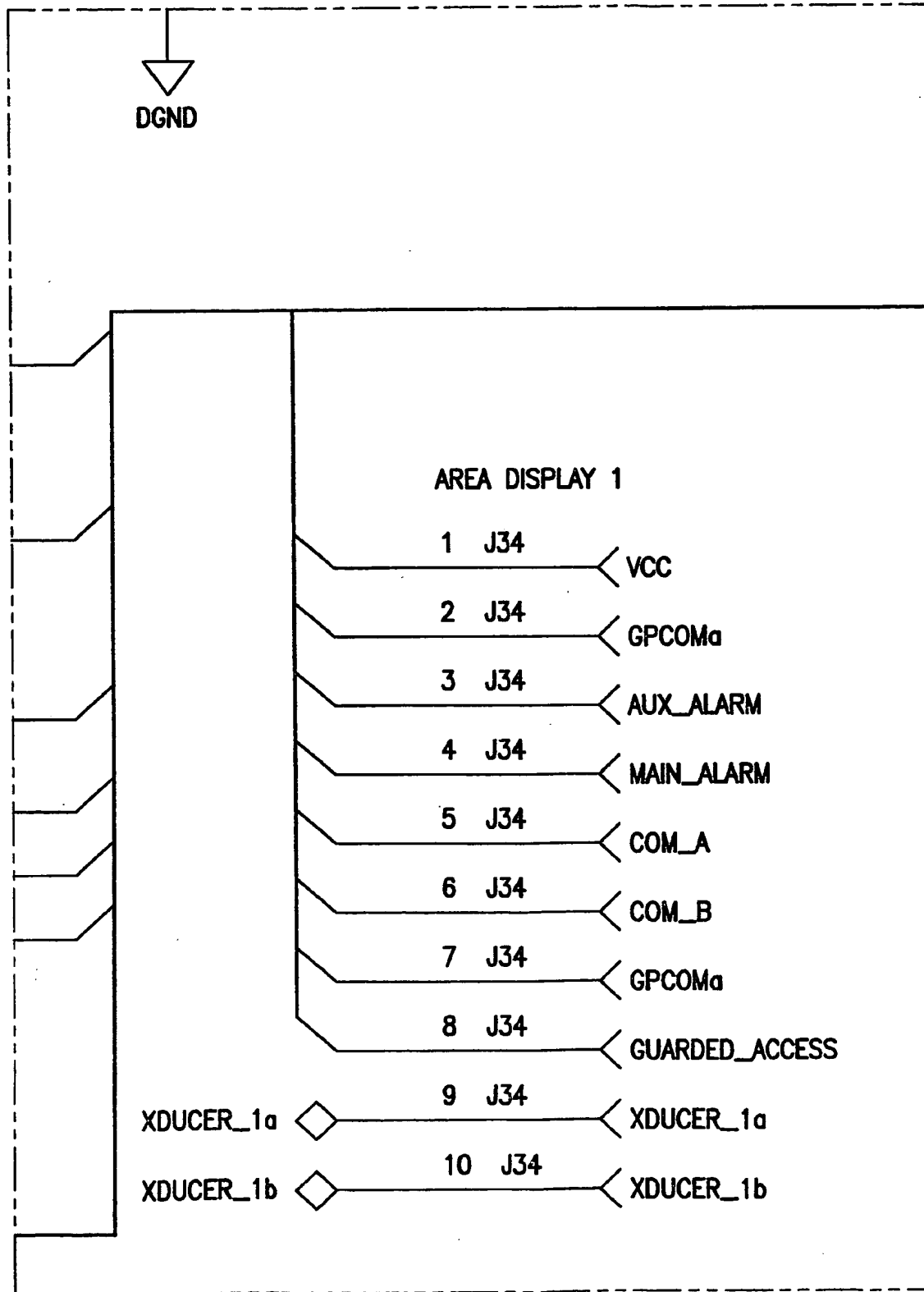
## FIG. 65F



REPLACEMENT SHEET

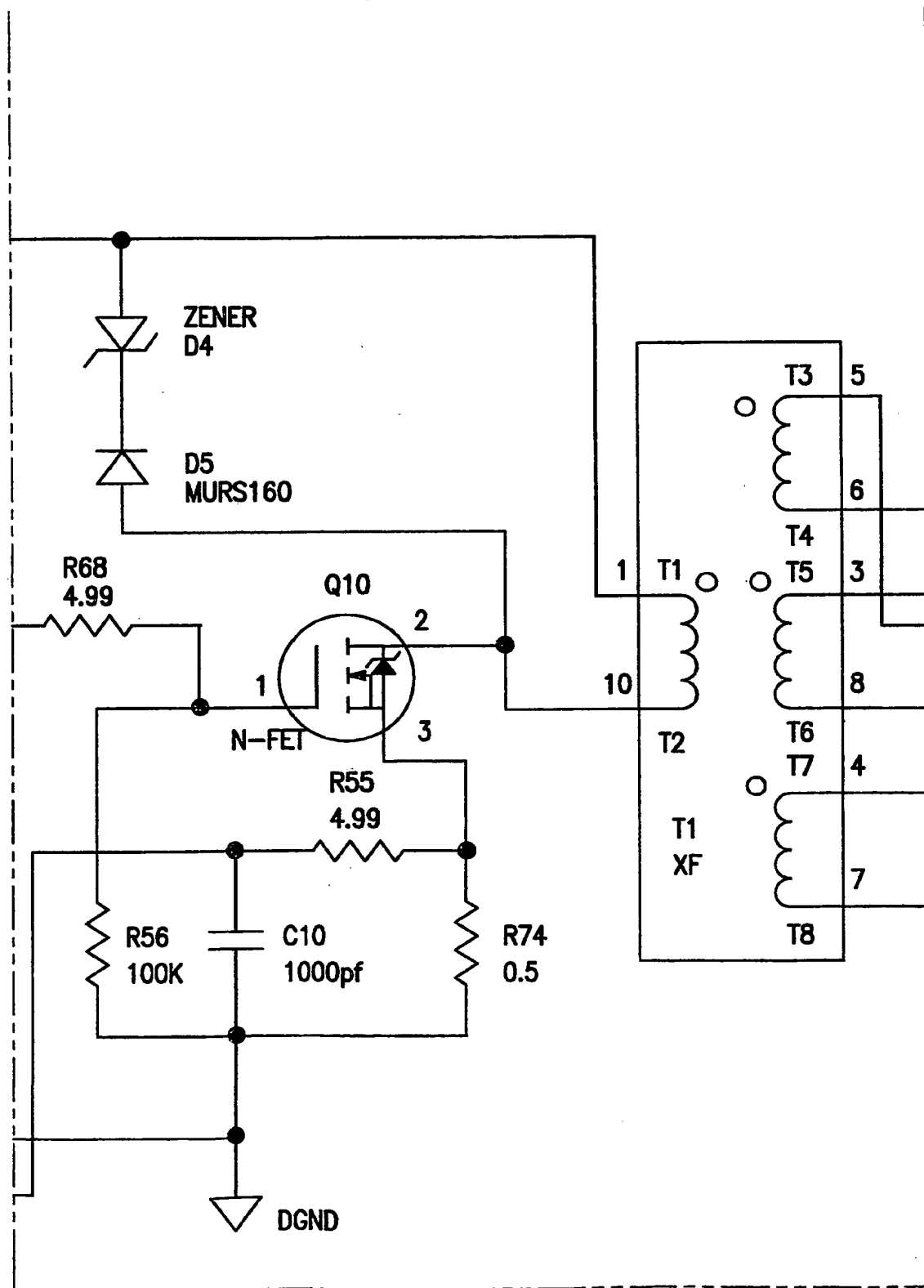
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FIG. 65G



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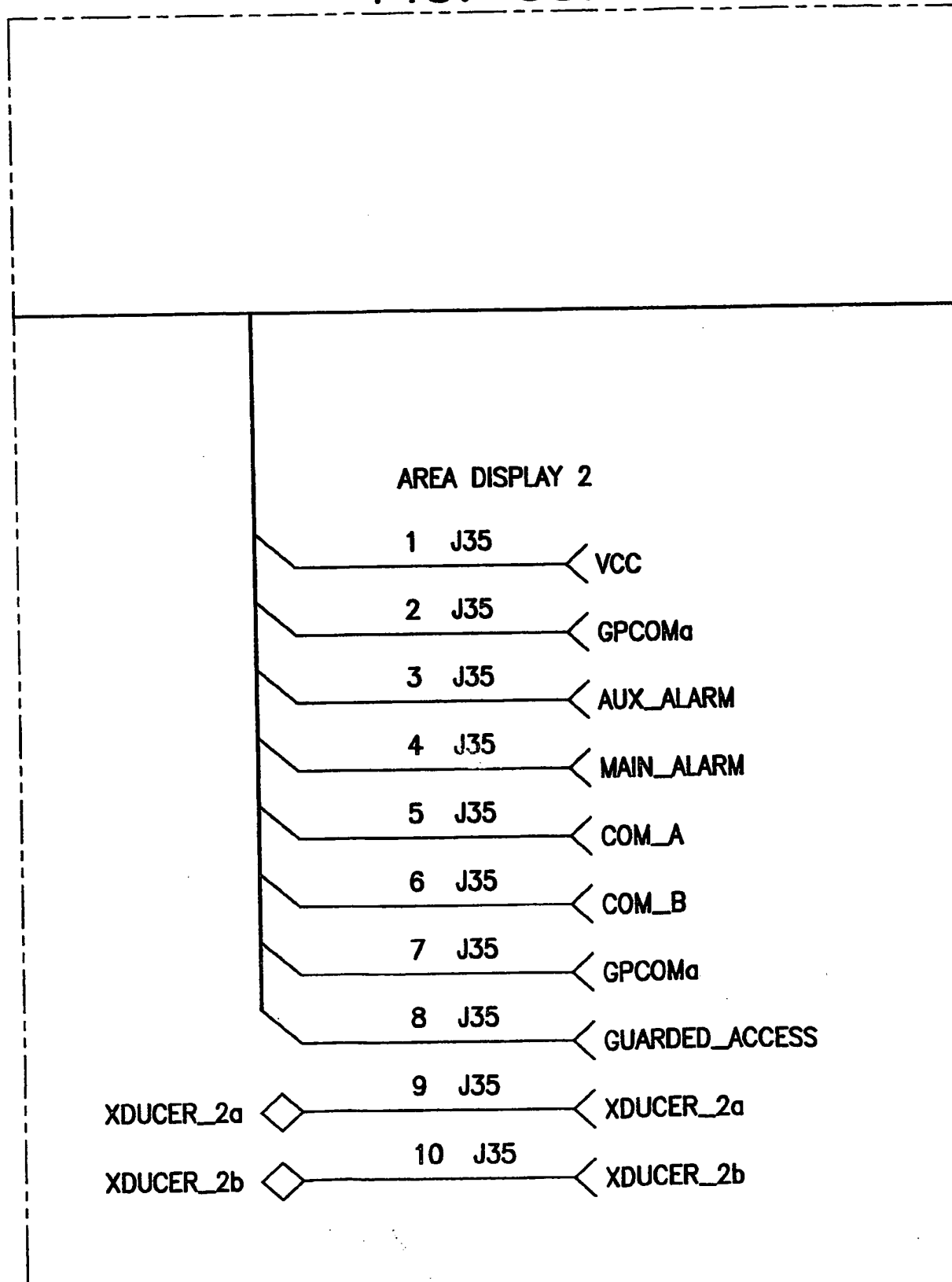
FIG. 65H



REPLACEMENT SHEET

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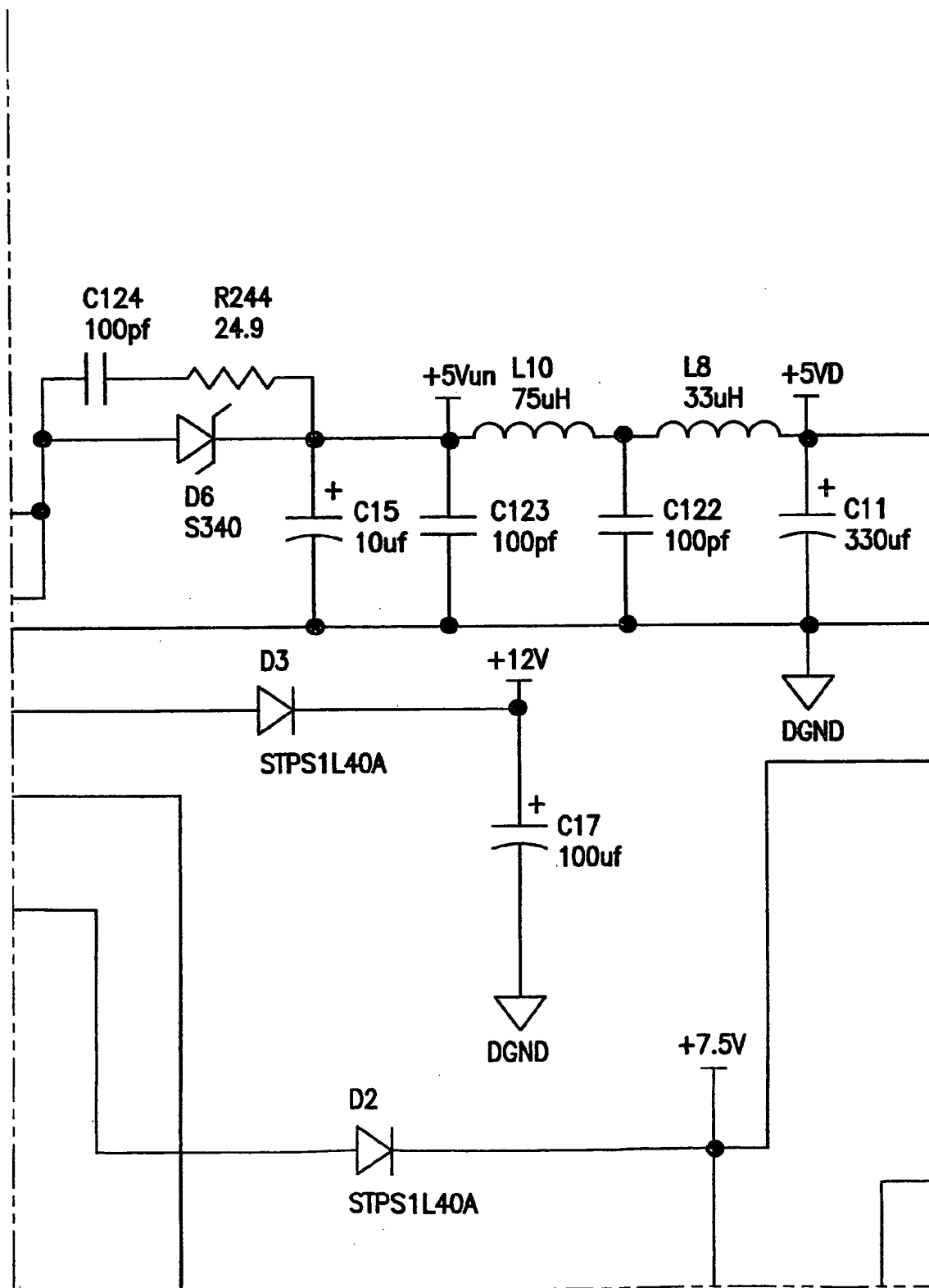
FIG. 65I



# REPLACEMENT SHEET

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## FIG. 65J

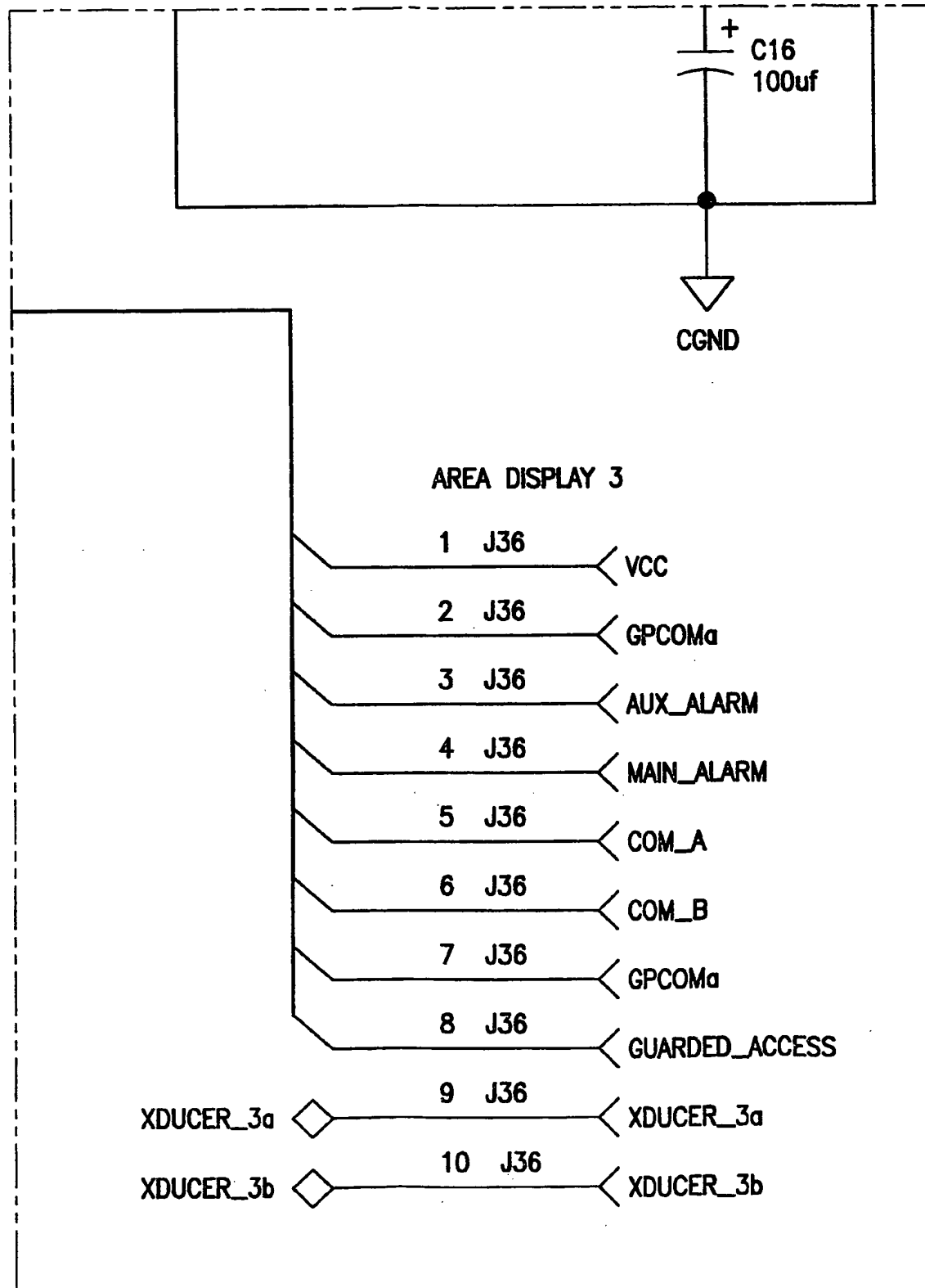




# REPLACEMENT SHEET

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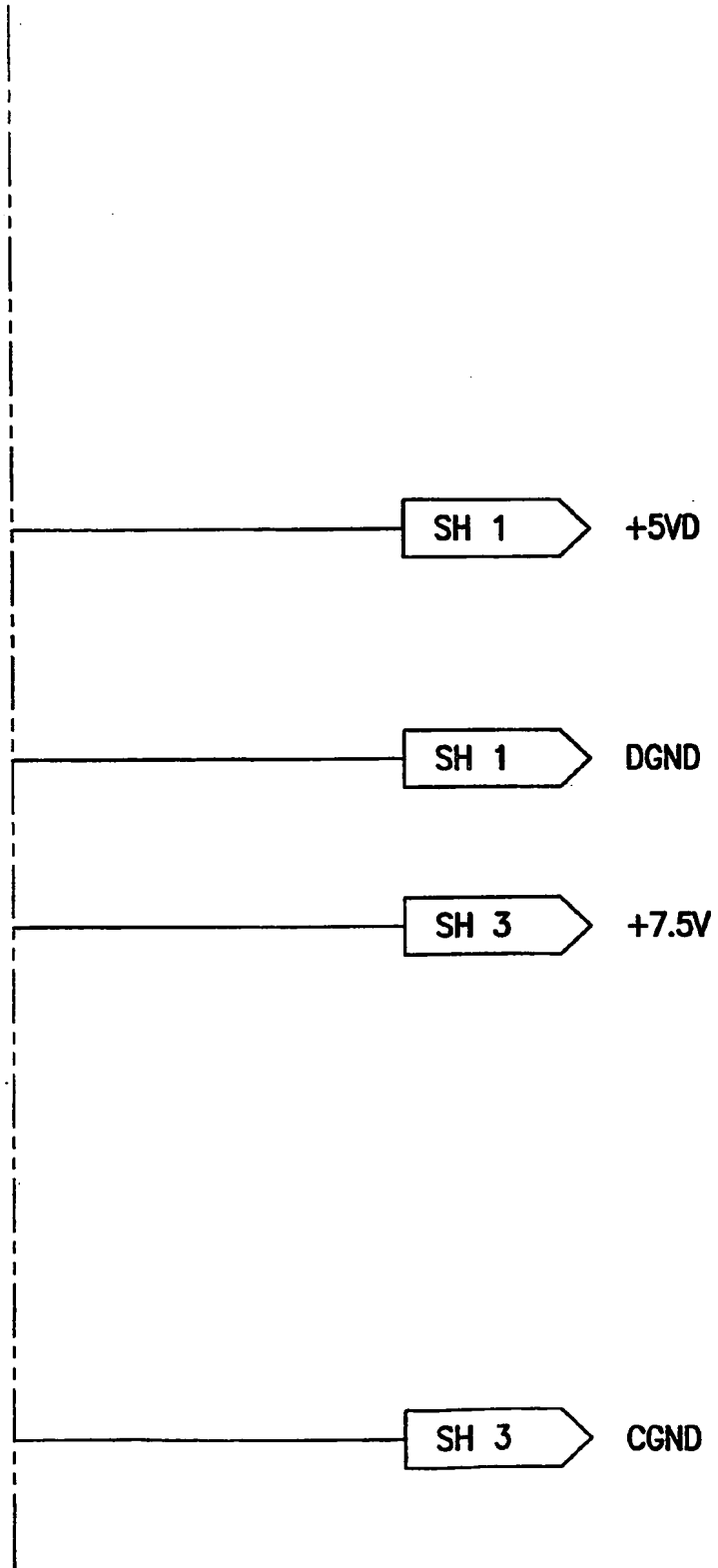
## FIG. 65K



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FIG. 65L



# REPLACEMENT SHEET

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## FIG. 66

	FIG. 66E	FIG. 66J	FIG. 66O	FIG. 66S	FIG. 66W
FIG. 66A	FIG. 66F	FIG. 66K	FIG. 66P	FIG. 66T	FIG. 66X
FIG. 66B	FIG. 66G	FIG. 66L	FIG. 66Q	FIG. 66U	
FIG. 66C	FIG. 66H	FIG. 66M	FIG. 66R	FIG. 66V	
FIG. 66D	FIG. 66I	FIG. 66N			

# REPLACEMENT SHEET

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## FIG. 66A

LOCAL ALARM 11	J32 9
LOCAL ALARM 12	J32 10
LOCAL ALARM 13	J32 11
LOCAL ALARM 14	J32 12

LOCAL ALARM 15	J32 13
LOCAL ALARM 16	J32 14
LOCAL ALARM 17	J32 15
LOCAL ALARM 18	J32 16

# REPLACEMENT SHEET

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## FIG. 66B

LOCAL ALARM 19	>	J32	17
LOCAL ALARM 20	>	J32	18
LOCAL ALARM 30	>	J32	19
LOCAL ALARM 29	>	J32	20

LOCAL ALARM 28	>	J32	21
LOCAL ALARM 27	>	J32	22
LOCAL ALARM 26	>	J32	23
LOCAL ALARM 25	>	J32	24

LOCAL ALARM 24	>	J32	25
LOCAL ALARM 23	>	J32	26
LOCAL ALARM 22	>	J33	1
LOCAL ALARM 21	>	J33	2

# REPLACEMENT SHEET

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## FIG. 66C

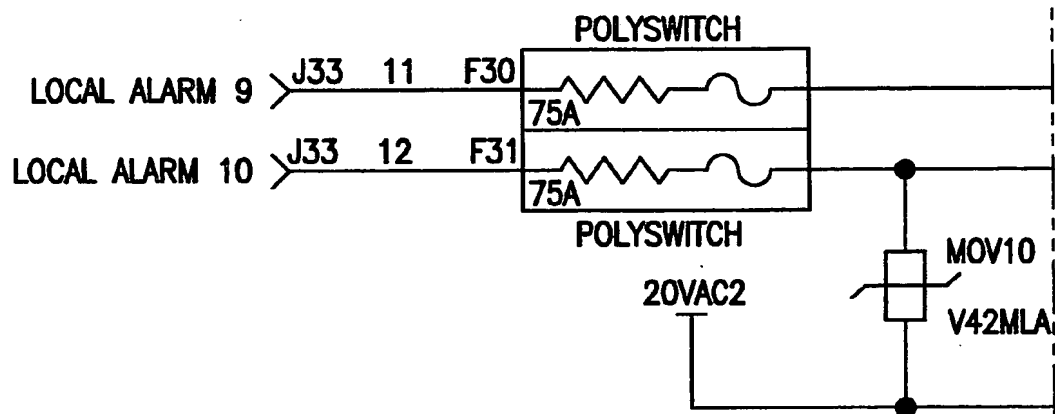
LOCAL ALARM 1	>	J33 3
LOCAL ALARM 2	>	J33 4
LOCAL ALARM 3	>	J33 5
LOCAL ALARM 4	>	J33 6

LOCAL ALARM 5	>	J33 7
LOCAL ALARM 6	>	J33 8
LOCAL ALARM 7	>	J33 9
LOCAL ALARM 8	>	J33 10

REPLACEMENT SHEET

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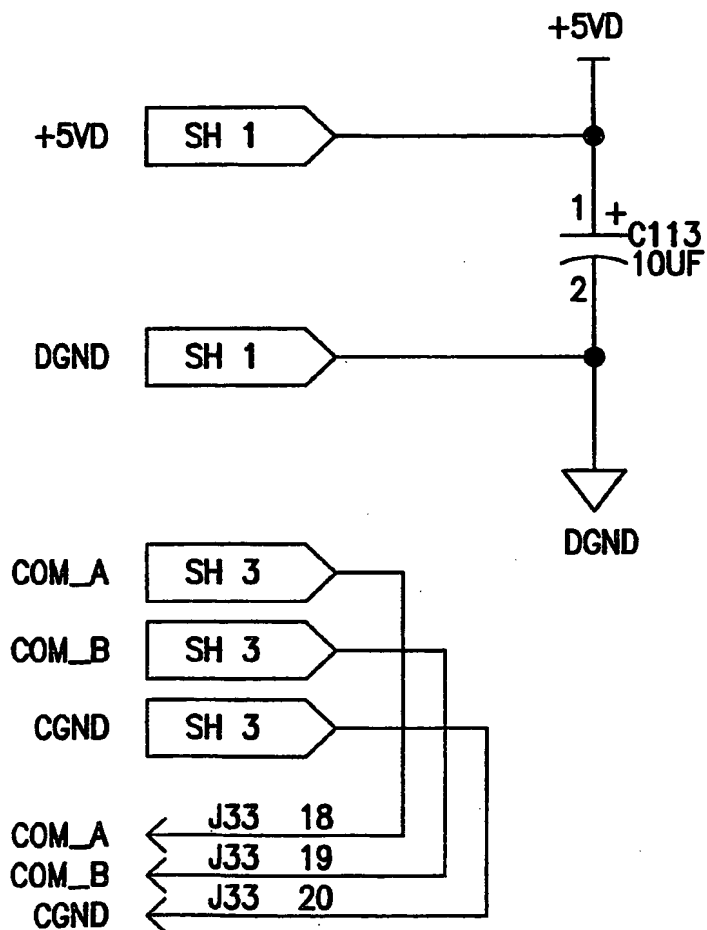
FIG. 66D



REPLACEMENT SHEET

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FIG. 66E

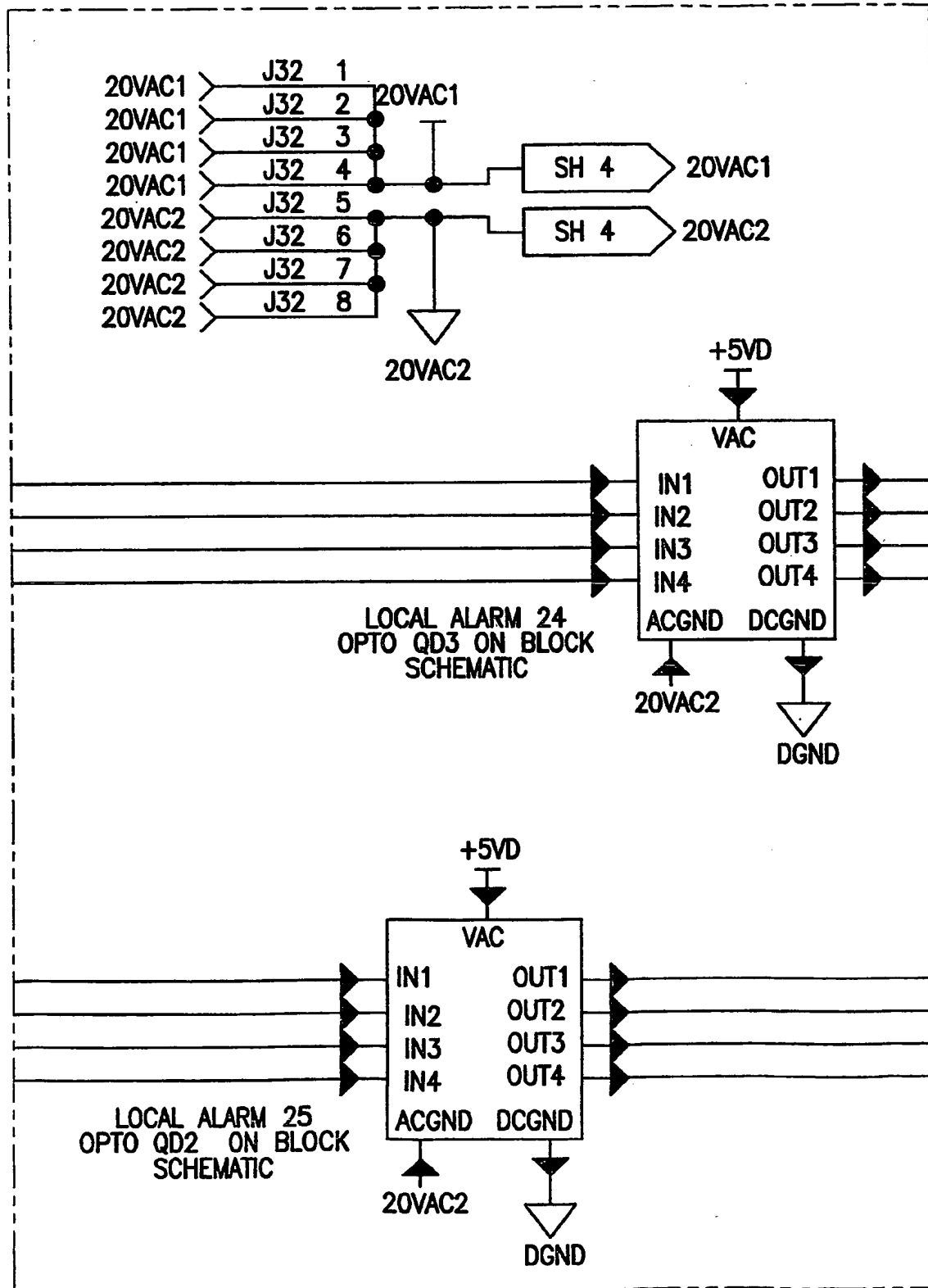




# REPLACEMENT SHEET

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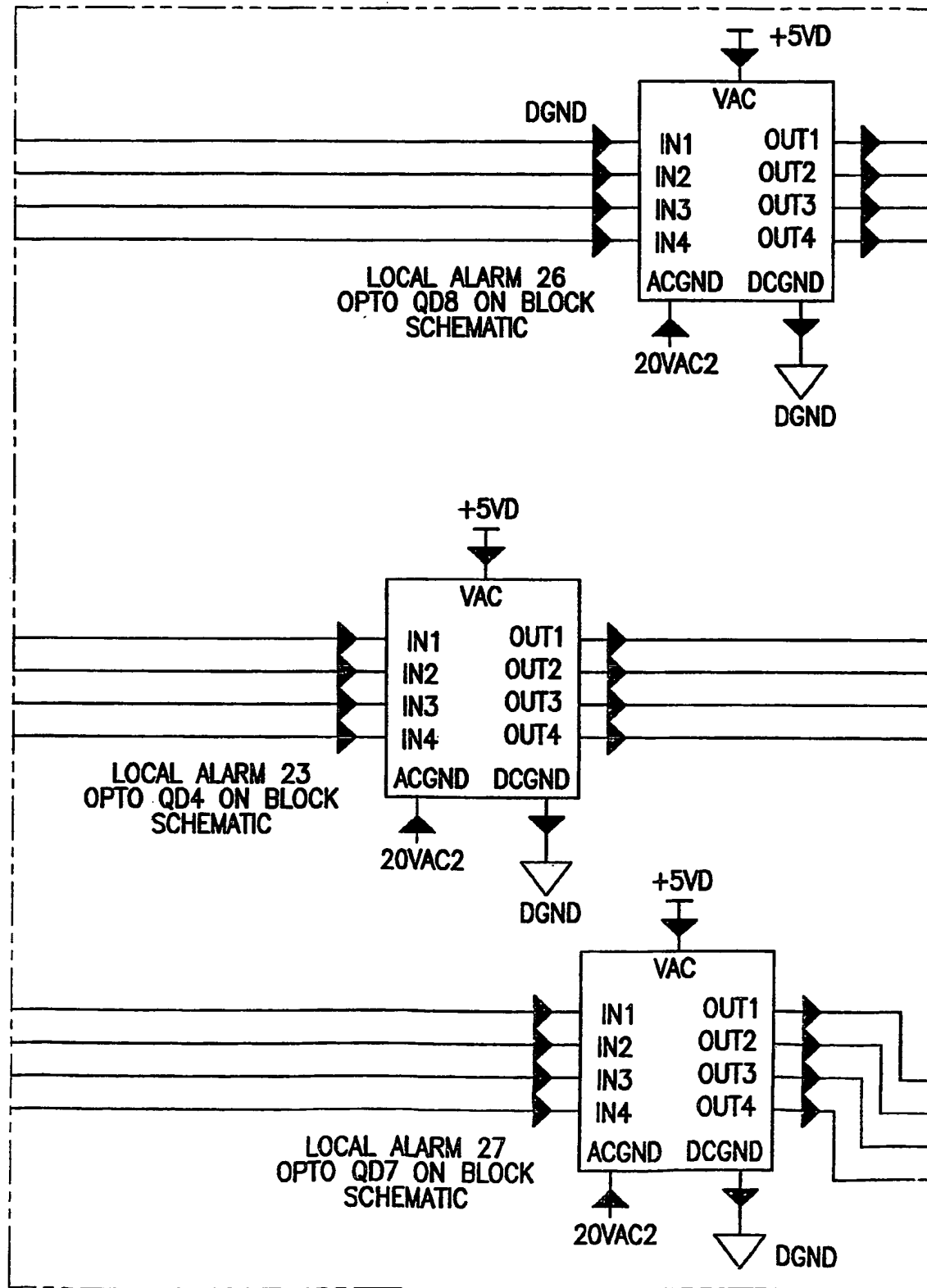
## FIG. 66F



# REPLACEMENT SHEET

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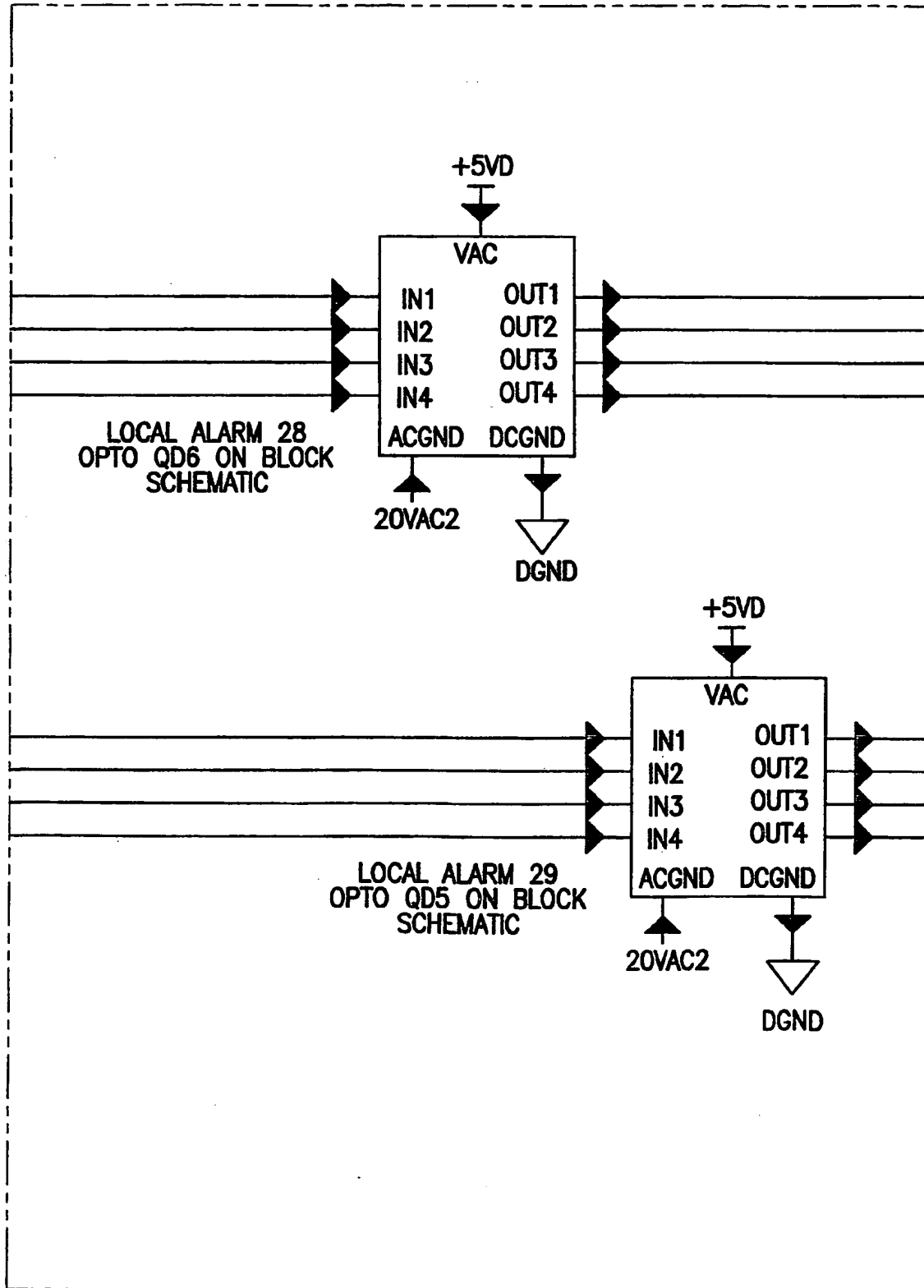
## FIG. 66G



# REPLACEMENT SHEET

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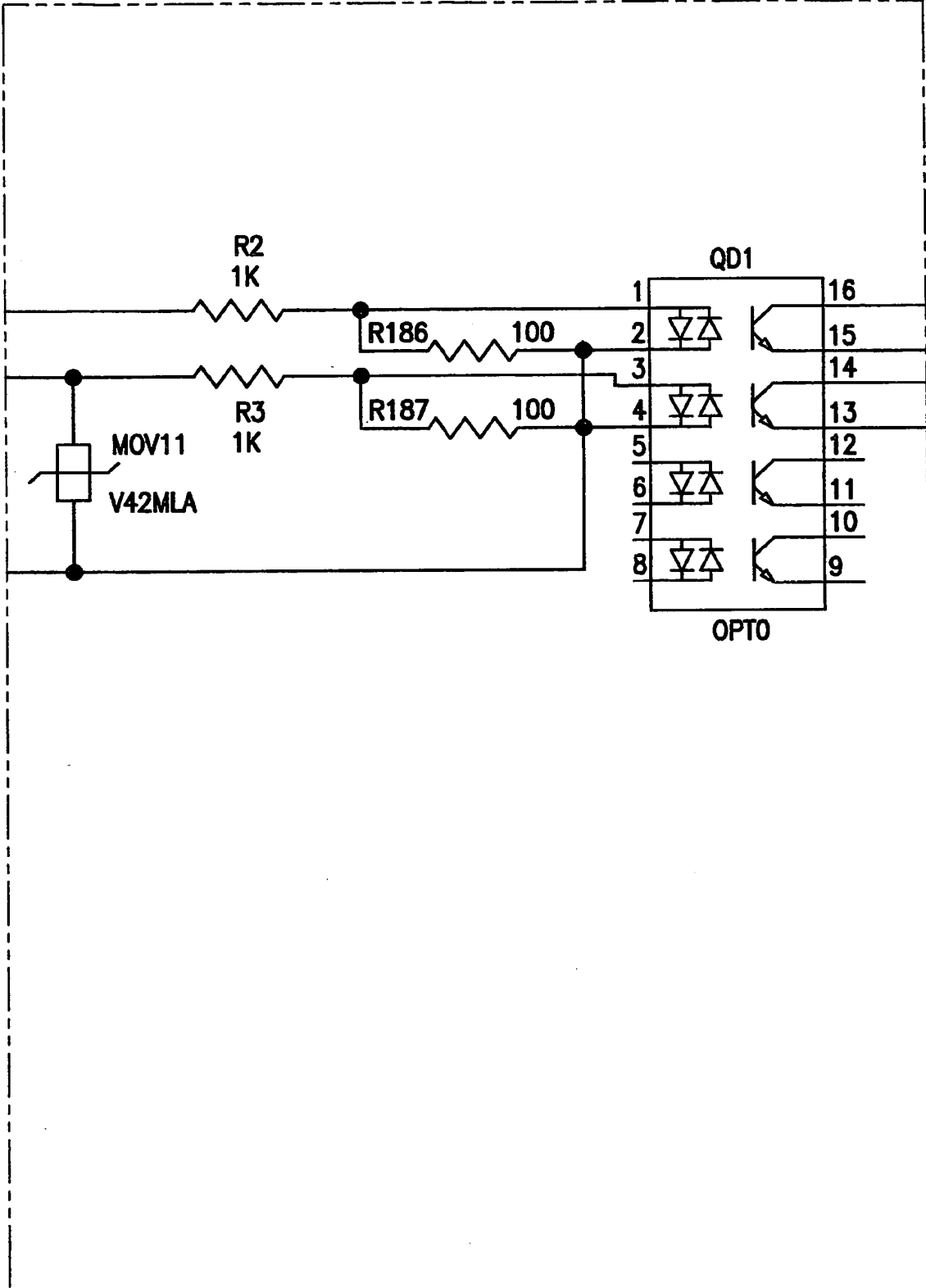
## FIG. 66H



REPLACEMENT SHEET

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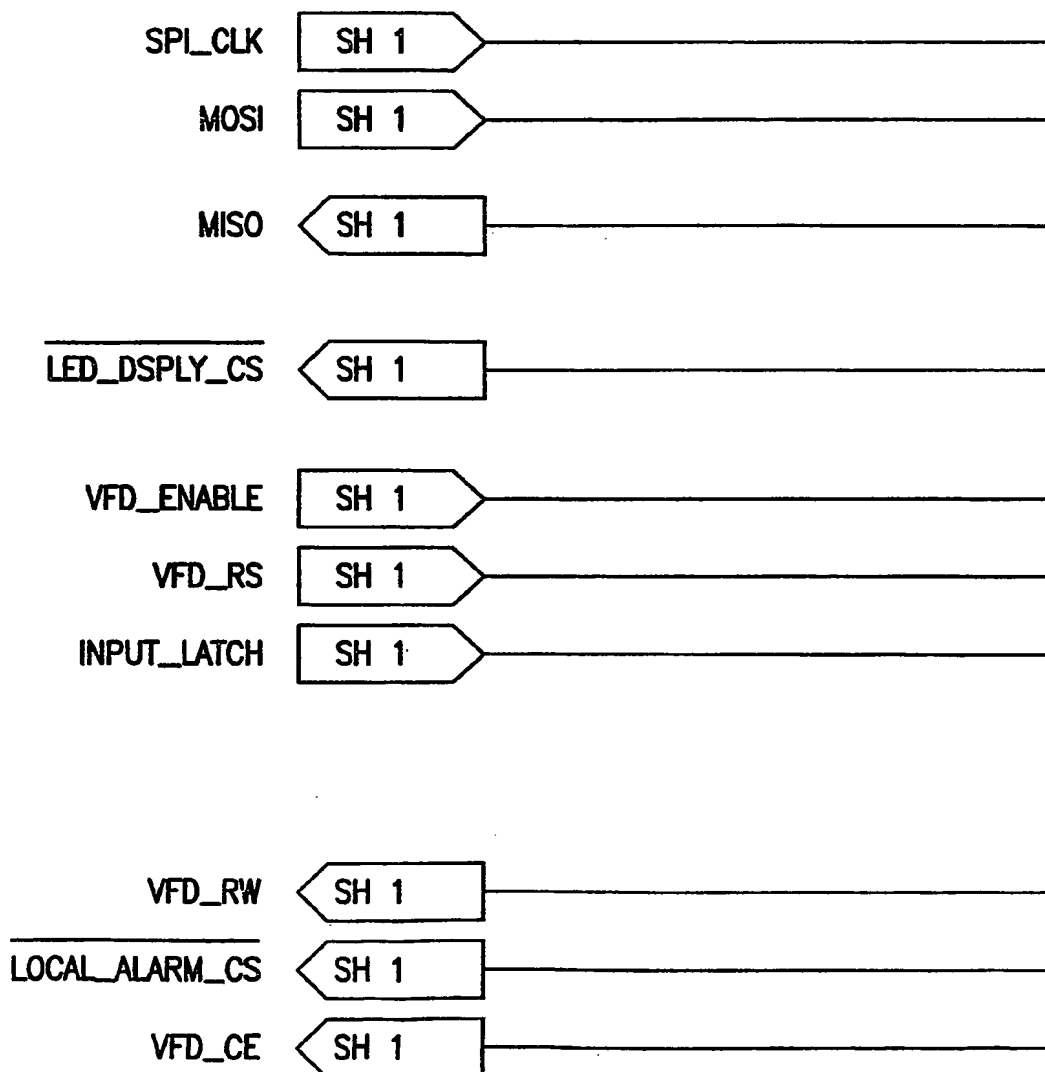
FIG. 66I



# REPLACEMENT SHEET

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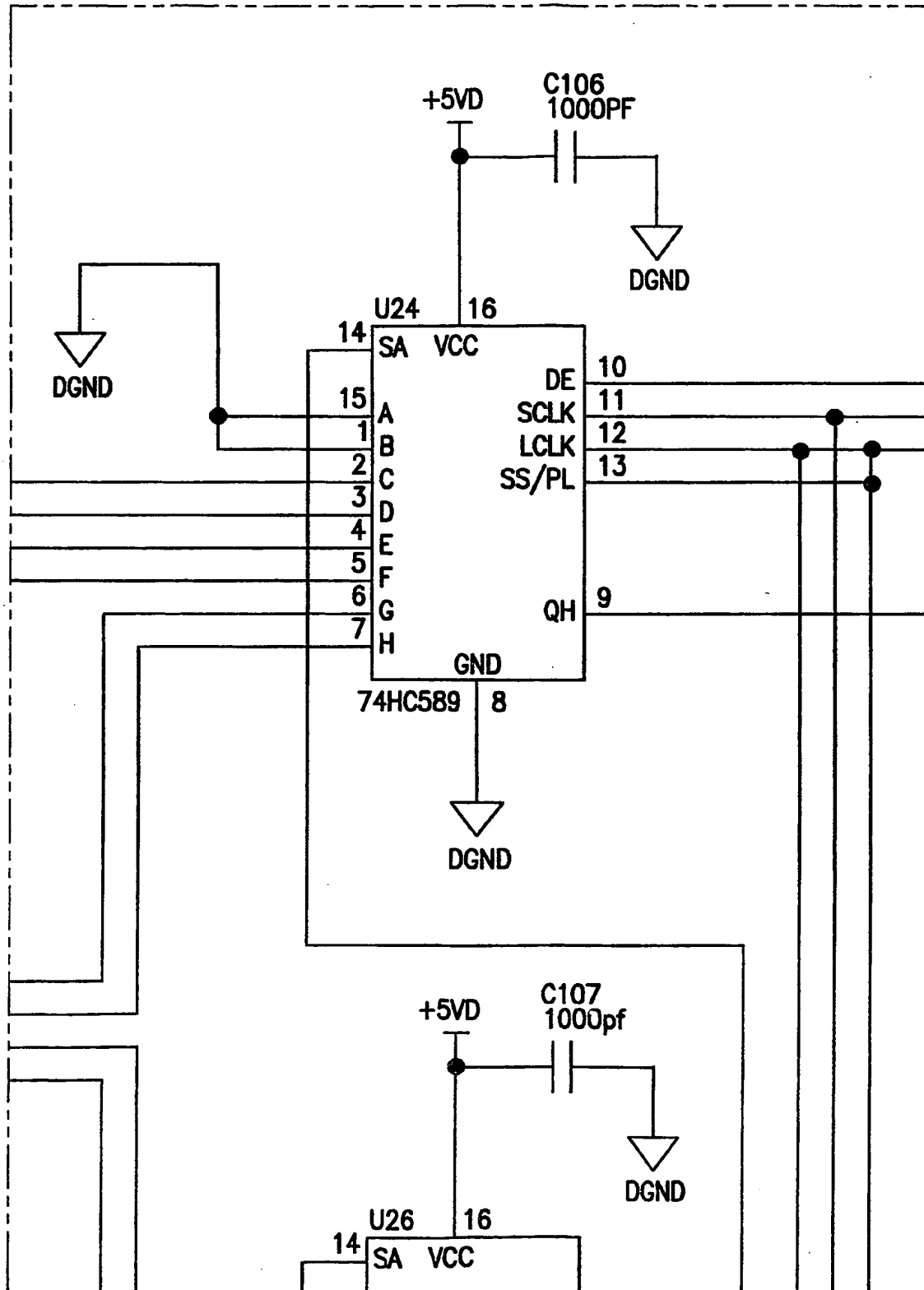
## FIG. 66J



# REPLACEMENT SHEET

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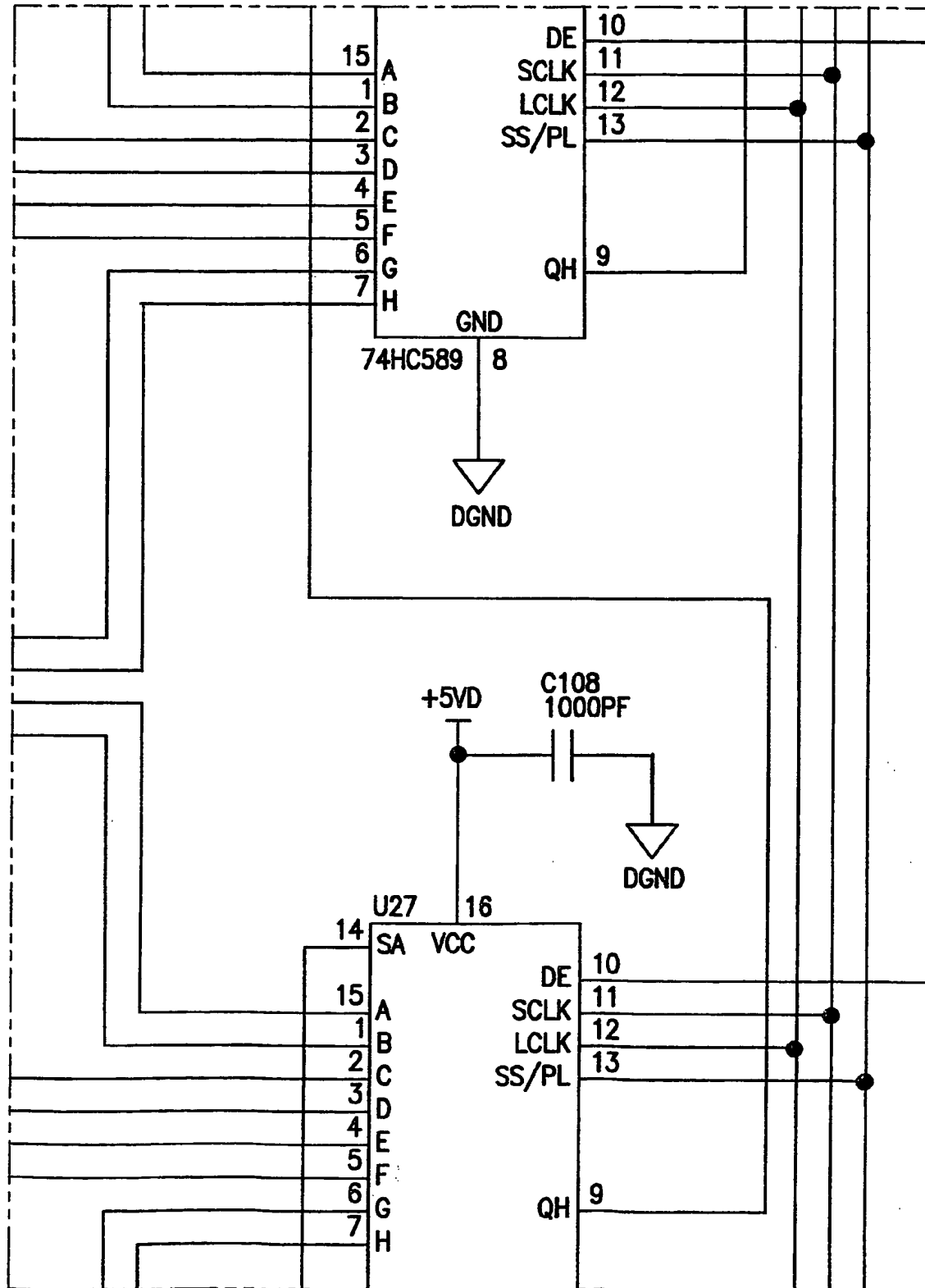
## FIG. 66K



# REPLACEMENT SHEET

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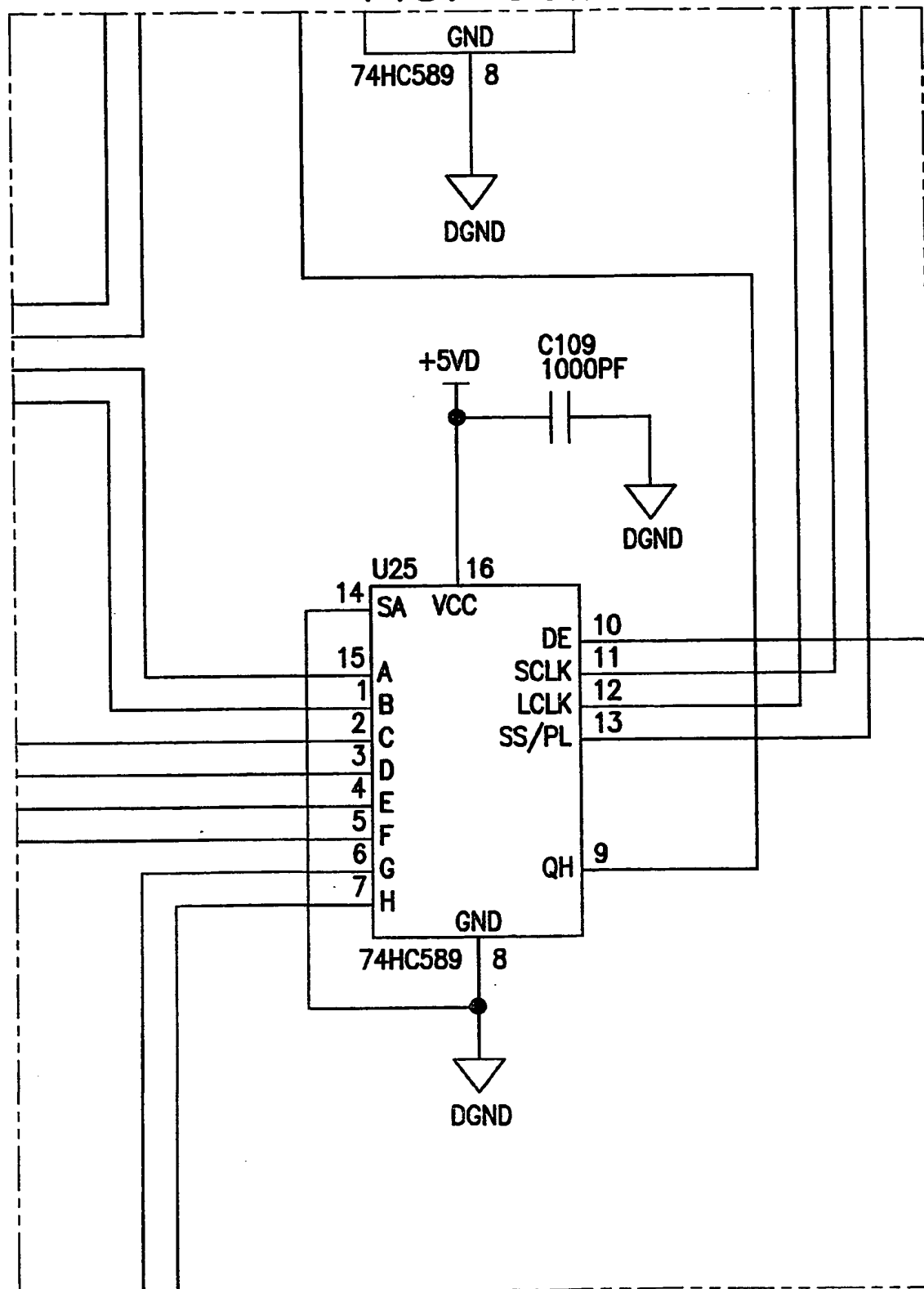
## FIG. 66L



# REPLACEMENT SHEET

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## FIG. 66M

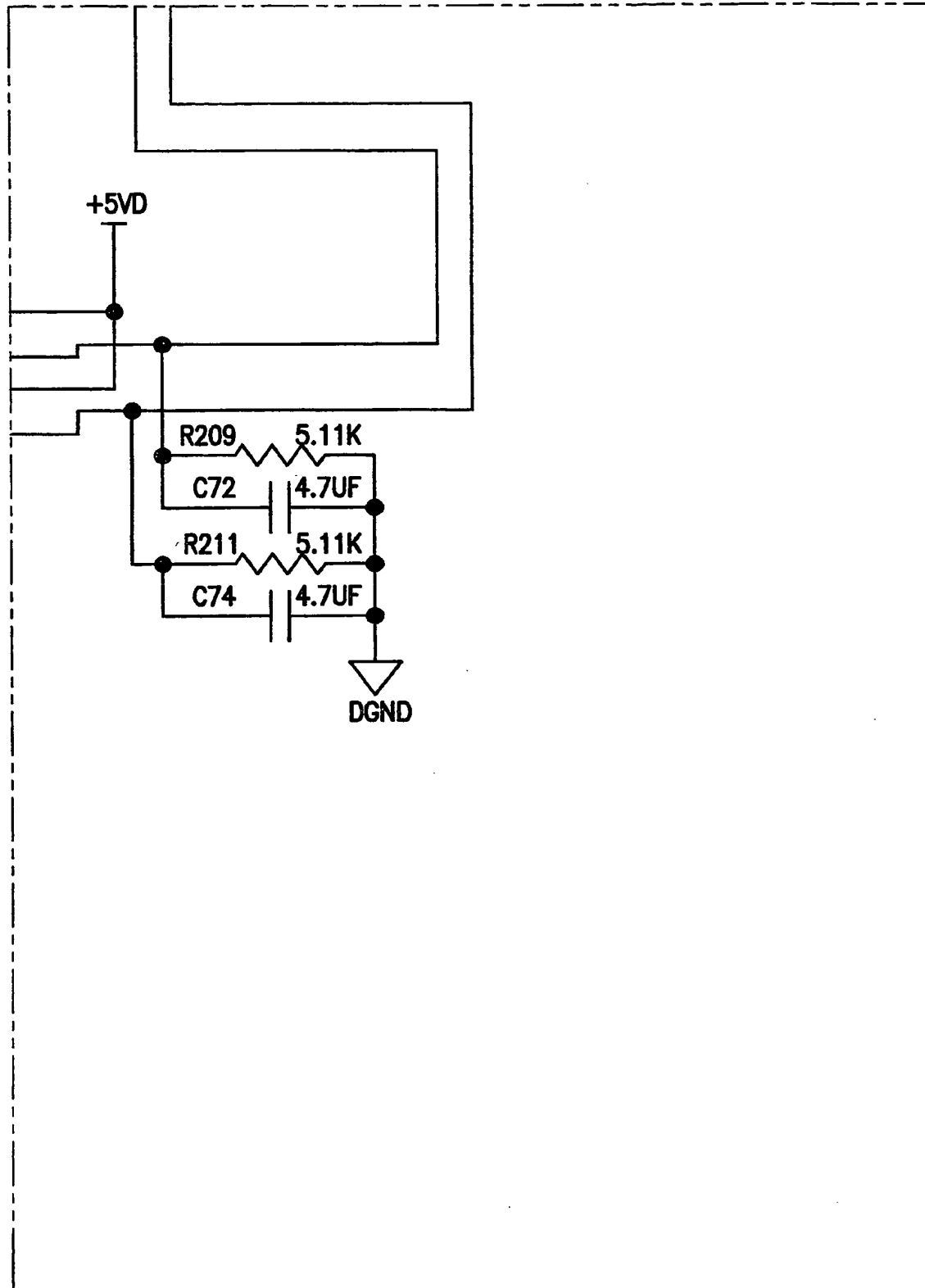




REPLACEMENT SHEET

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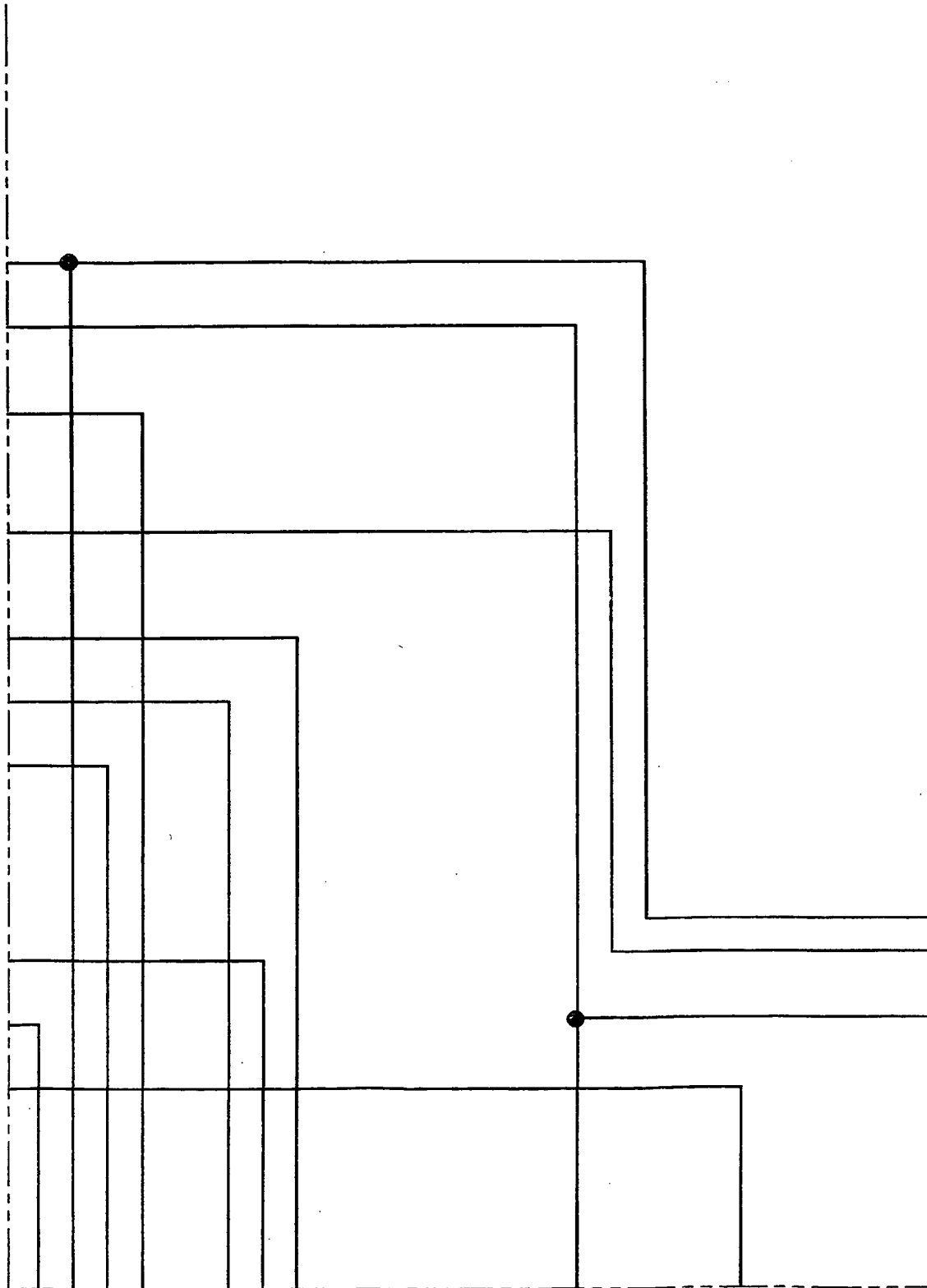
FIG. 66N



REPLACEMENT SHEET

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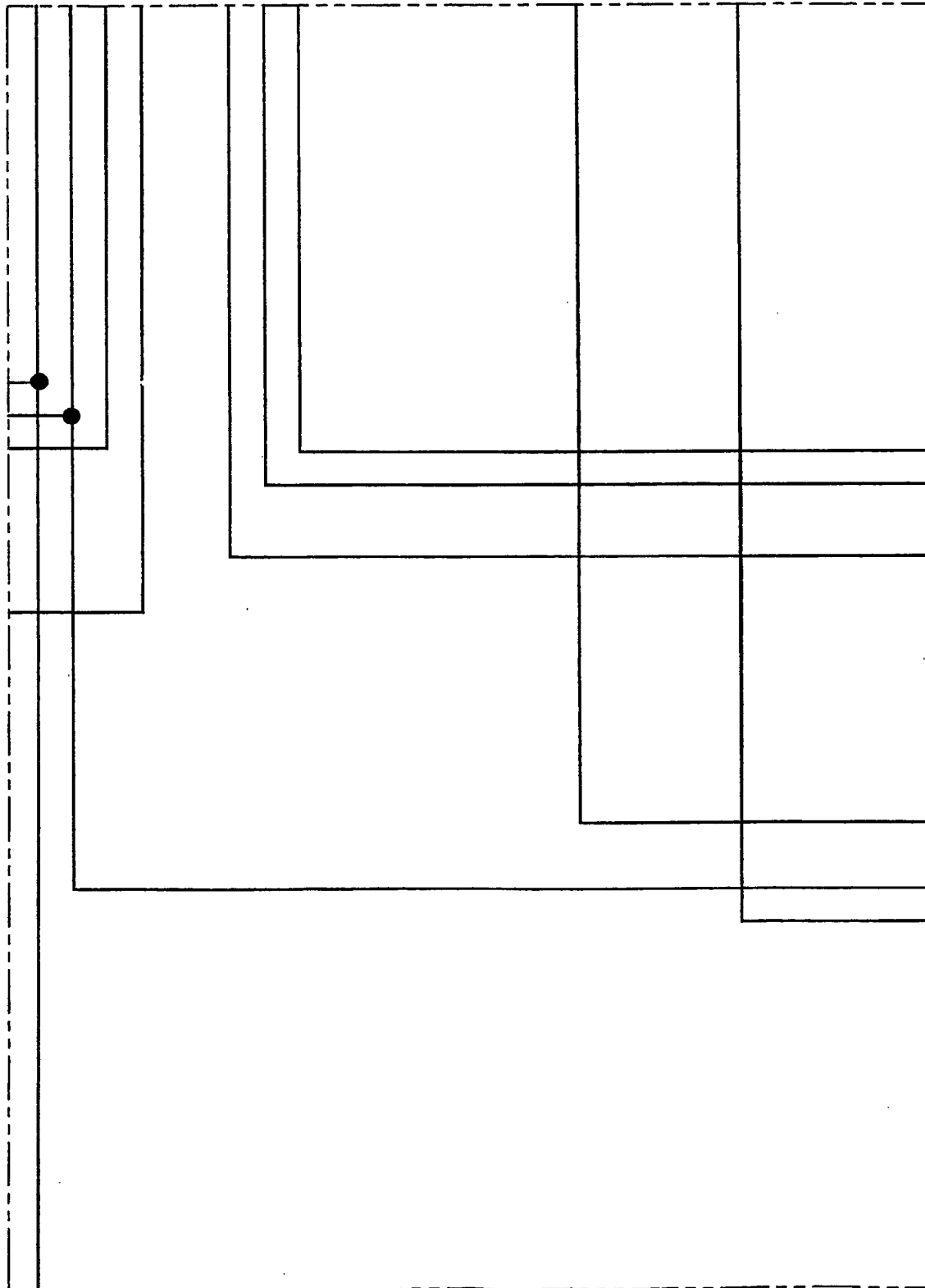
FIG. 660



REPLACEMENT SHEET

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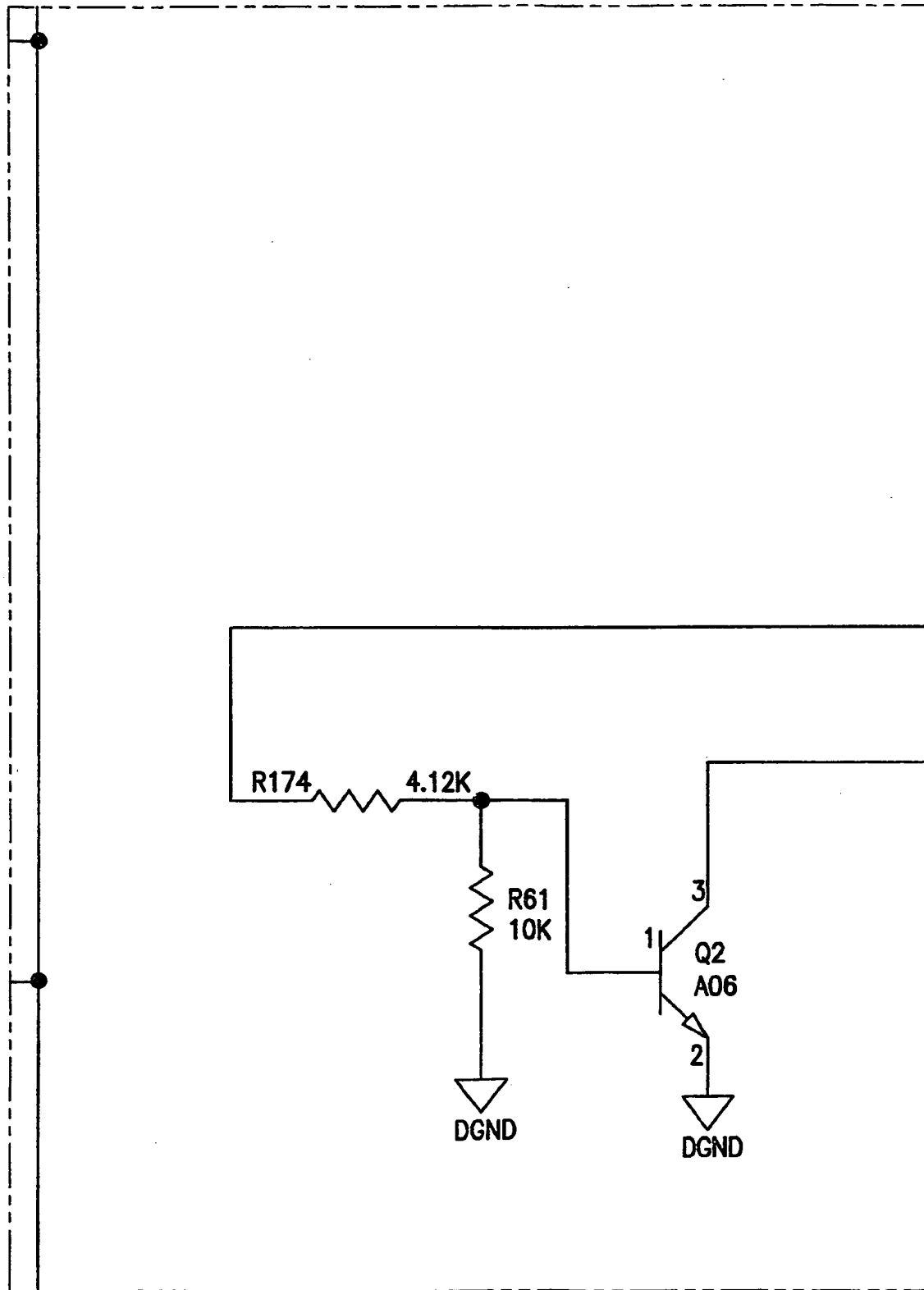
FIG. 66P



REPLACEMENT SHEET

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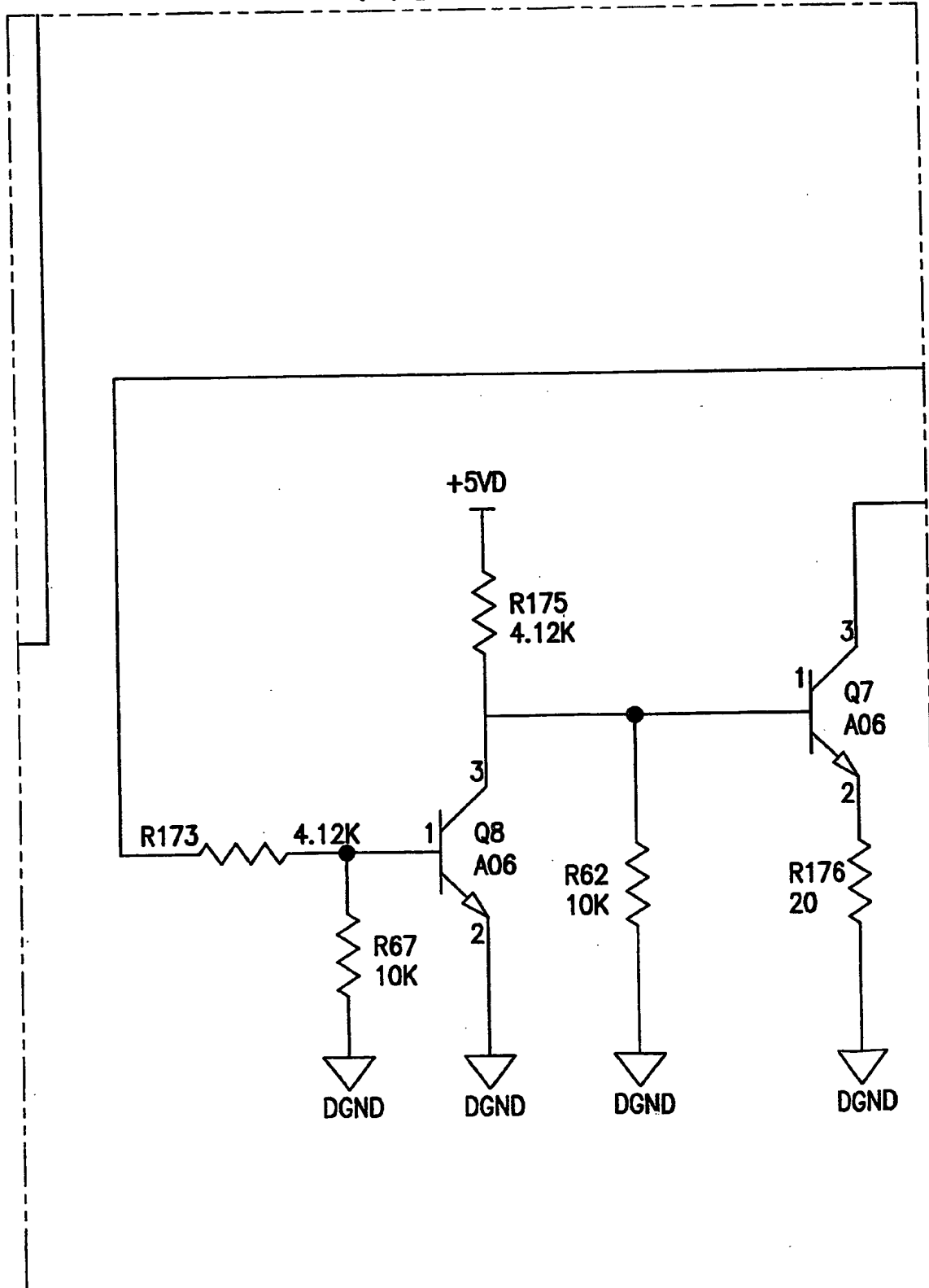
FIG. 66Q



# REPLACEMENT SHEET

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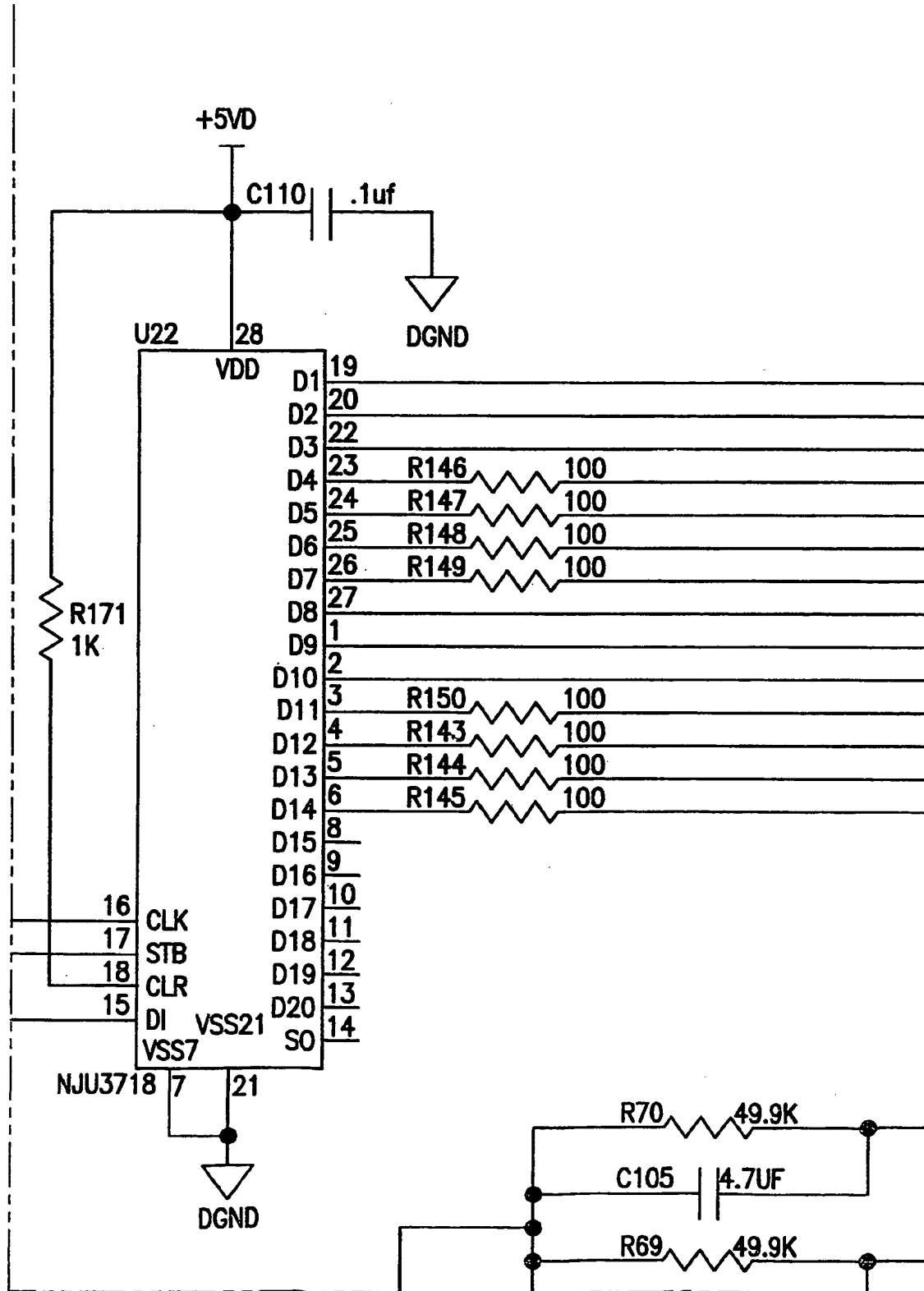
## FIG. 66R



# REPLACEMENT SHEET

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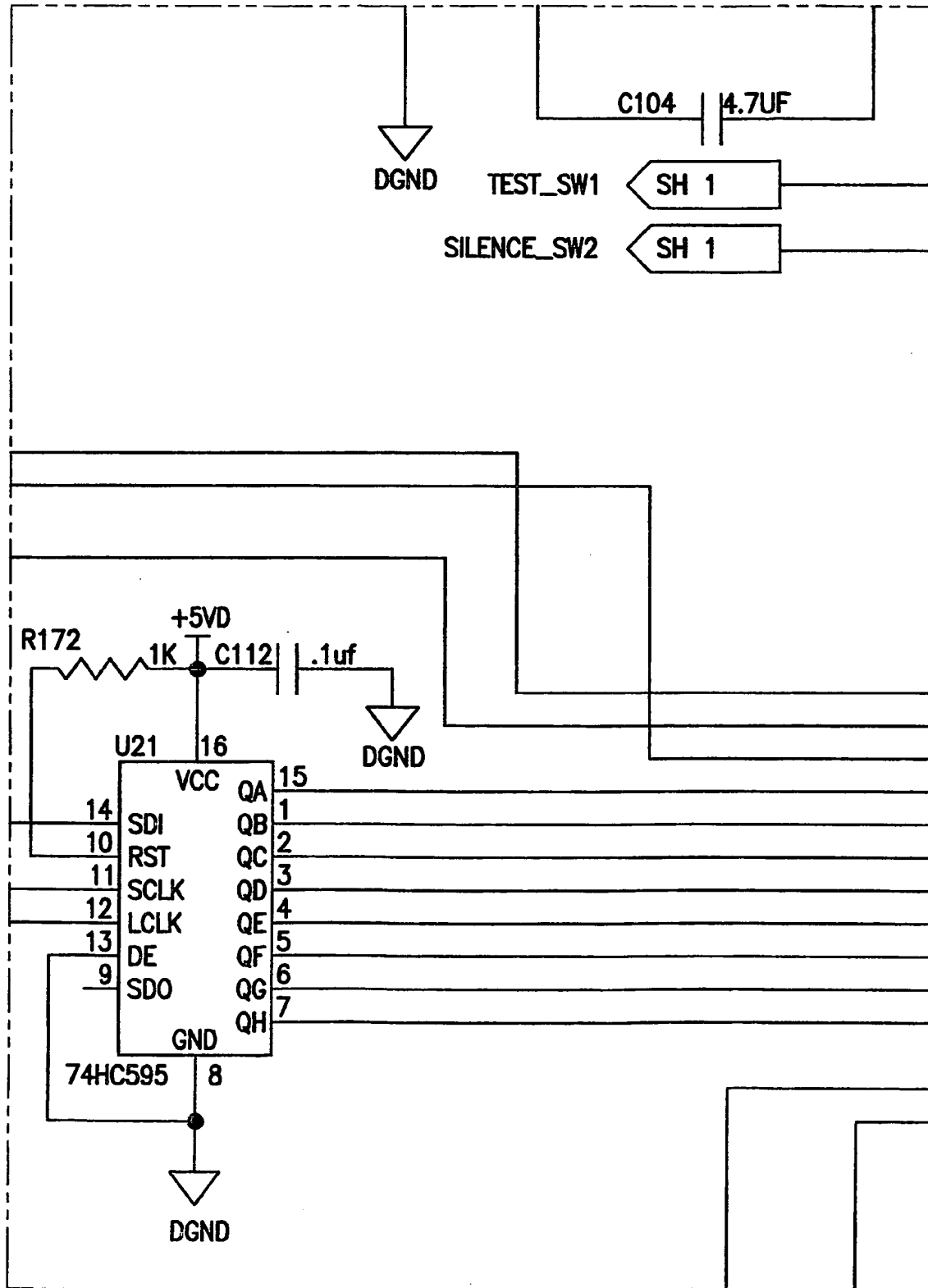
## FIG. 66S



# REPLACEMENT SHEET

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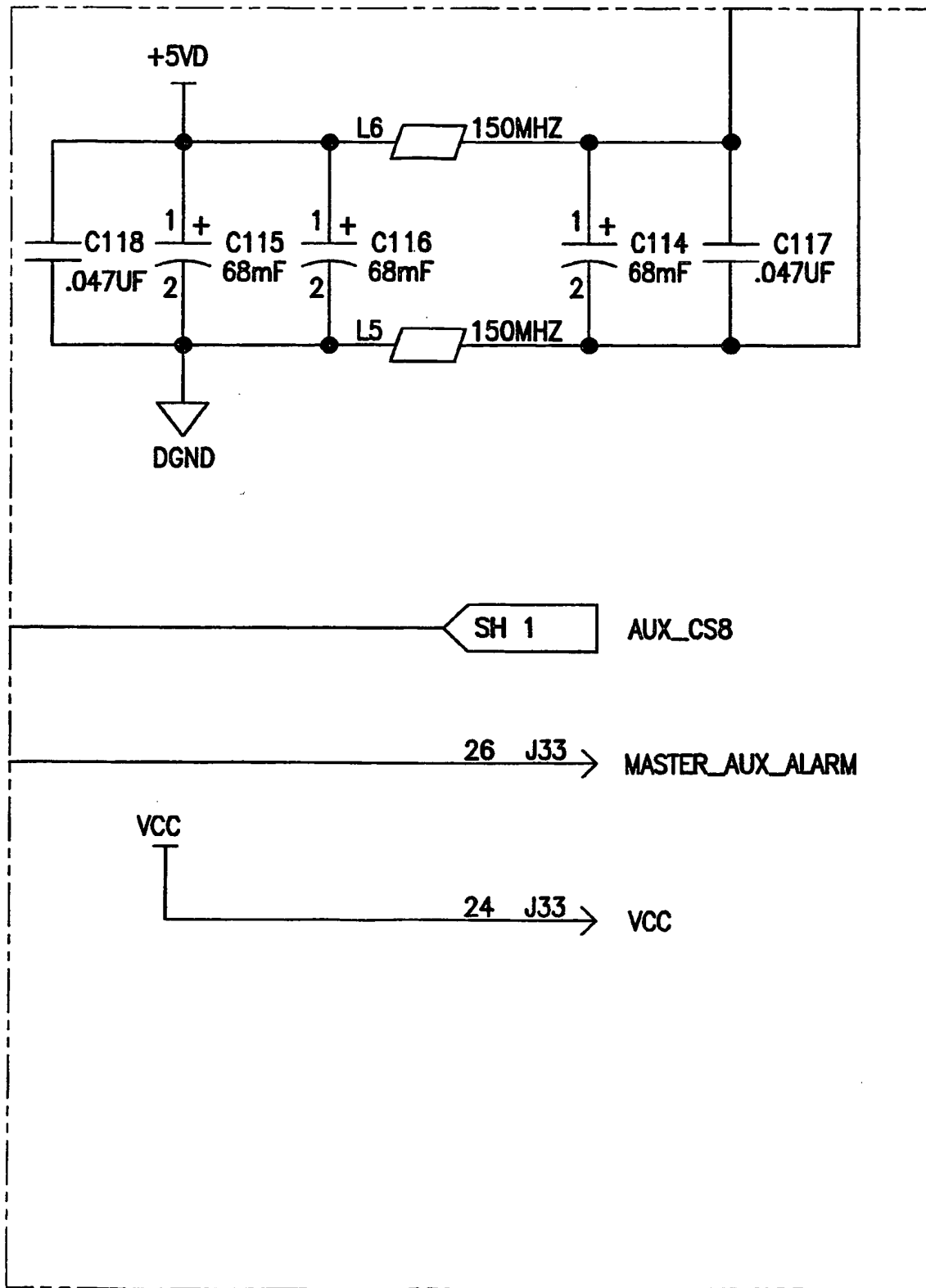
## FIG. 66T



# REPLACEMENT SHEET

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## FIG. 66U

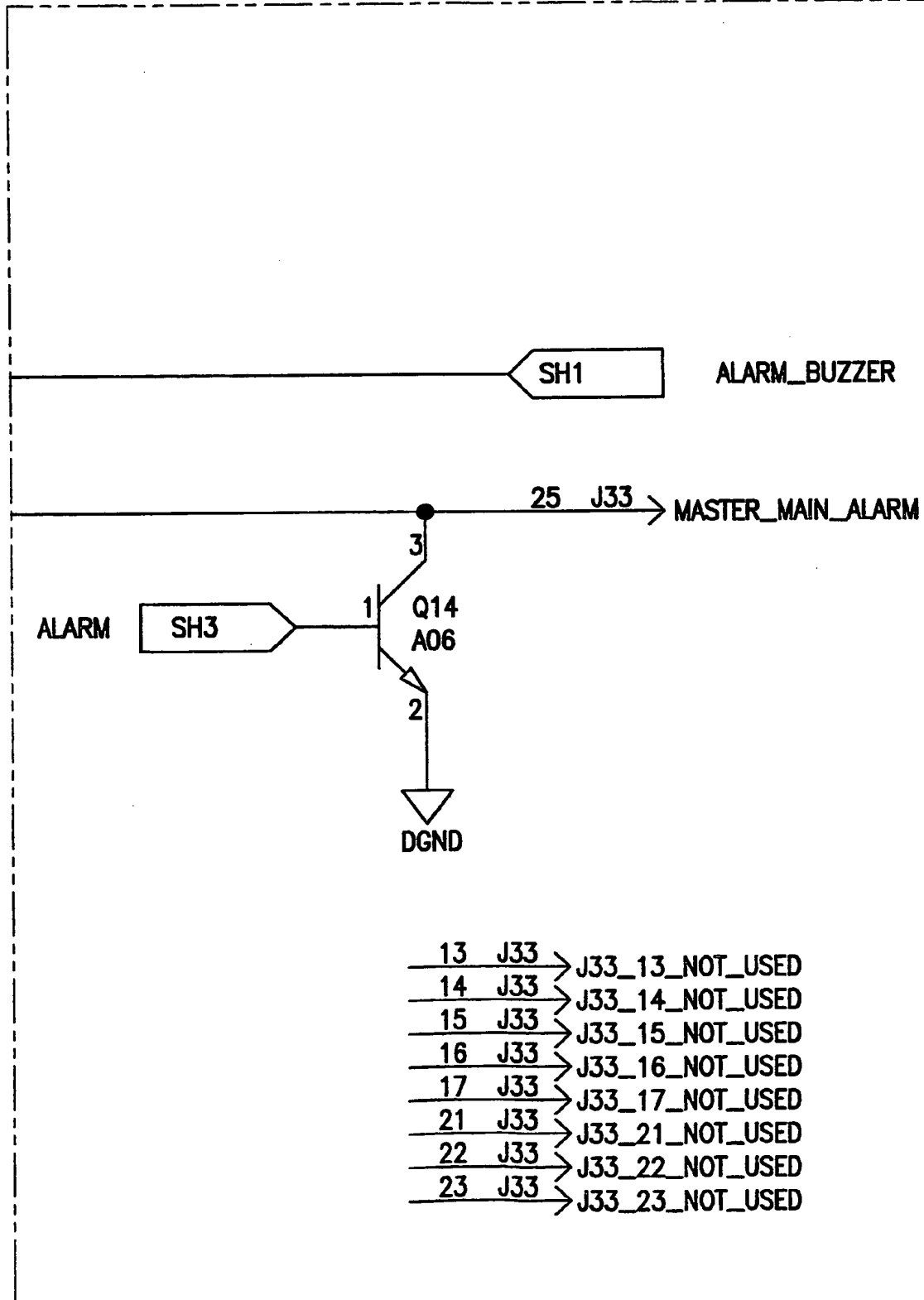




# REPLACEMENT SHEET

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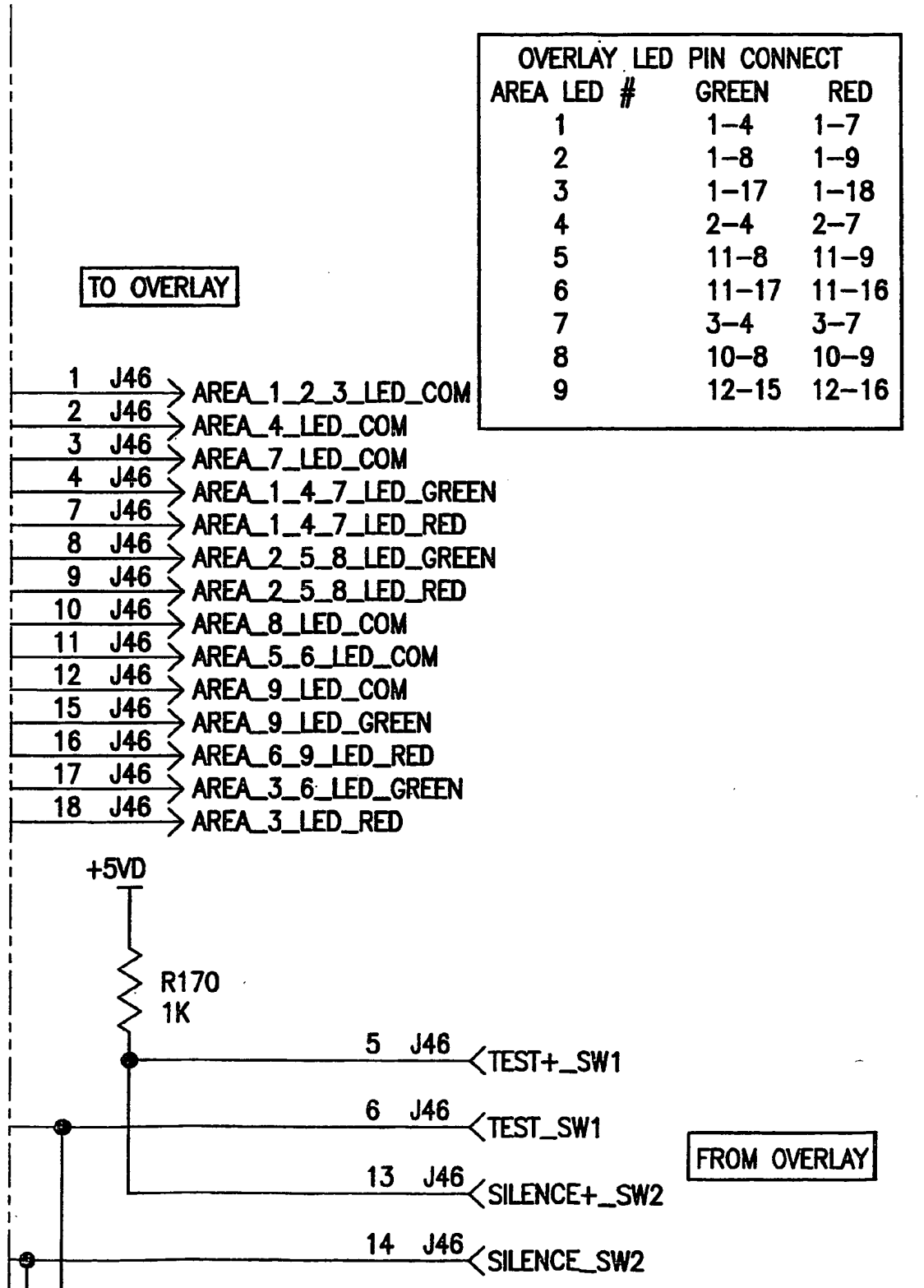
## FIG. 66V



# REPLACEMENT SHEET

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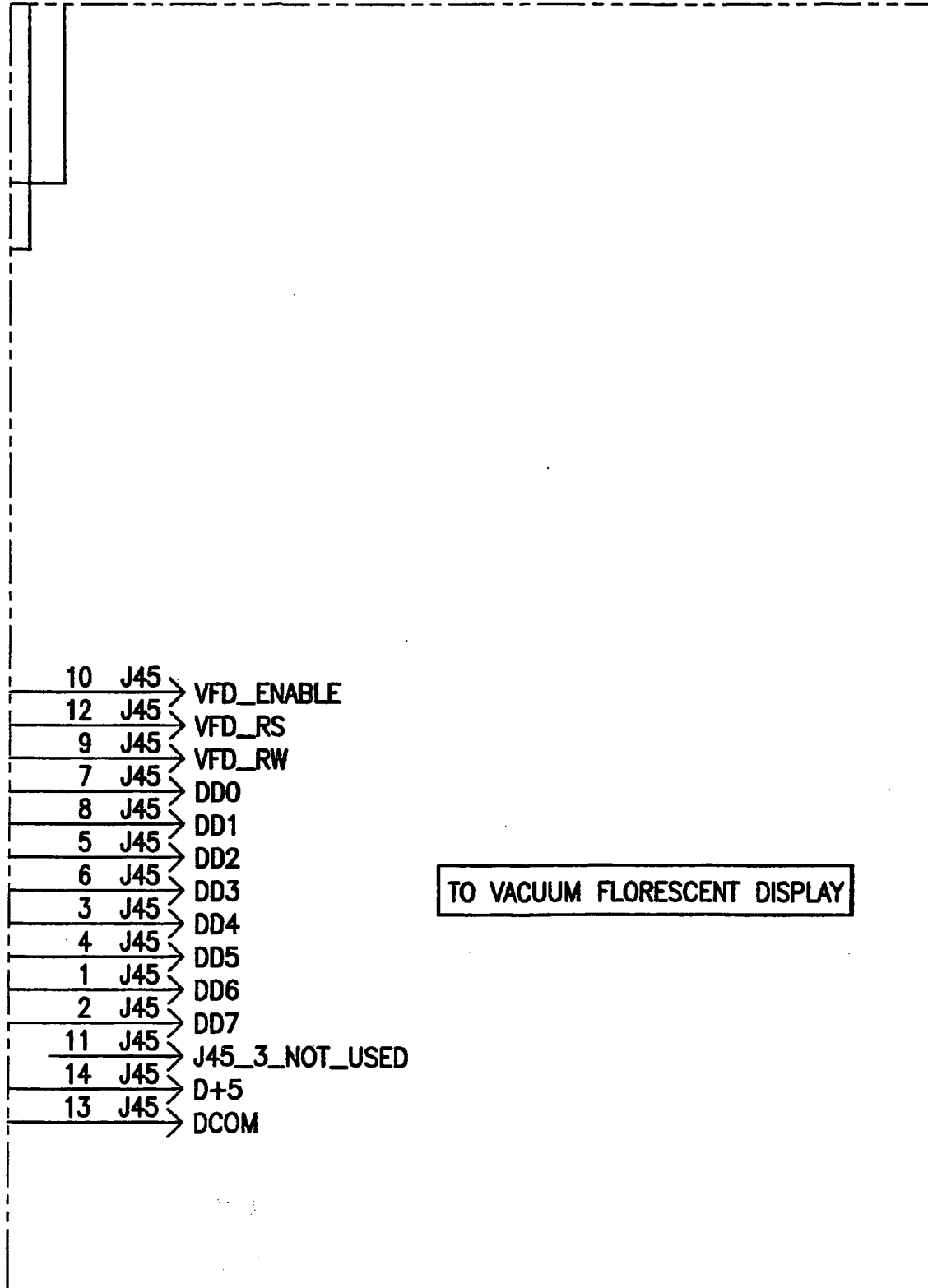
## FIG. 66W



# REPLACEMENT SHEET

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## FIG. 66X



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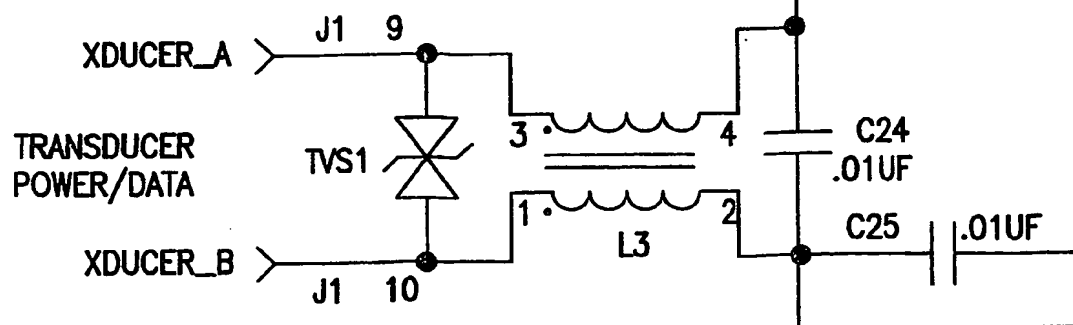
FIG. 67

		FIG. 67E	FIG. 67I	FIG. 67M		
FIG. 67A	FIG. 67B	FIG. 67F	FIG. 67J	FIG. 67N	FIG. 67Q	FIG. 67T
		FIG. 67C	FIG. 67G	FIG. 67K	FIG. 67O	FIG. 67R
		FIG. 67D	FIG. 67H	FIG. 67L	FIG. 67P	FIG. 67S

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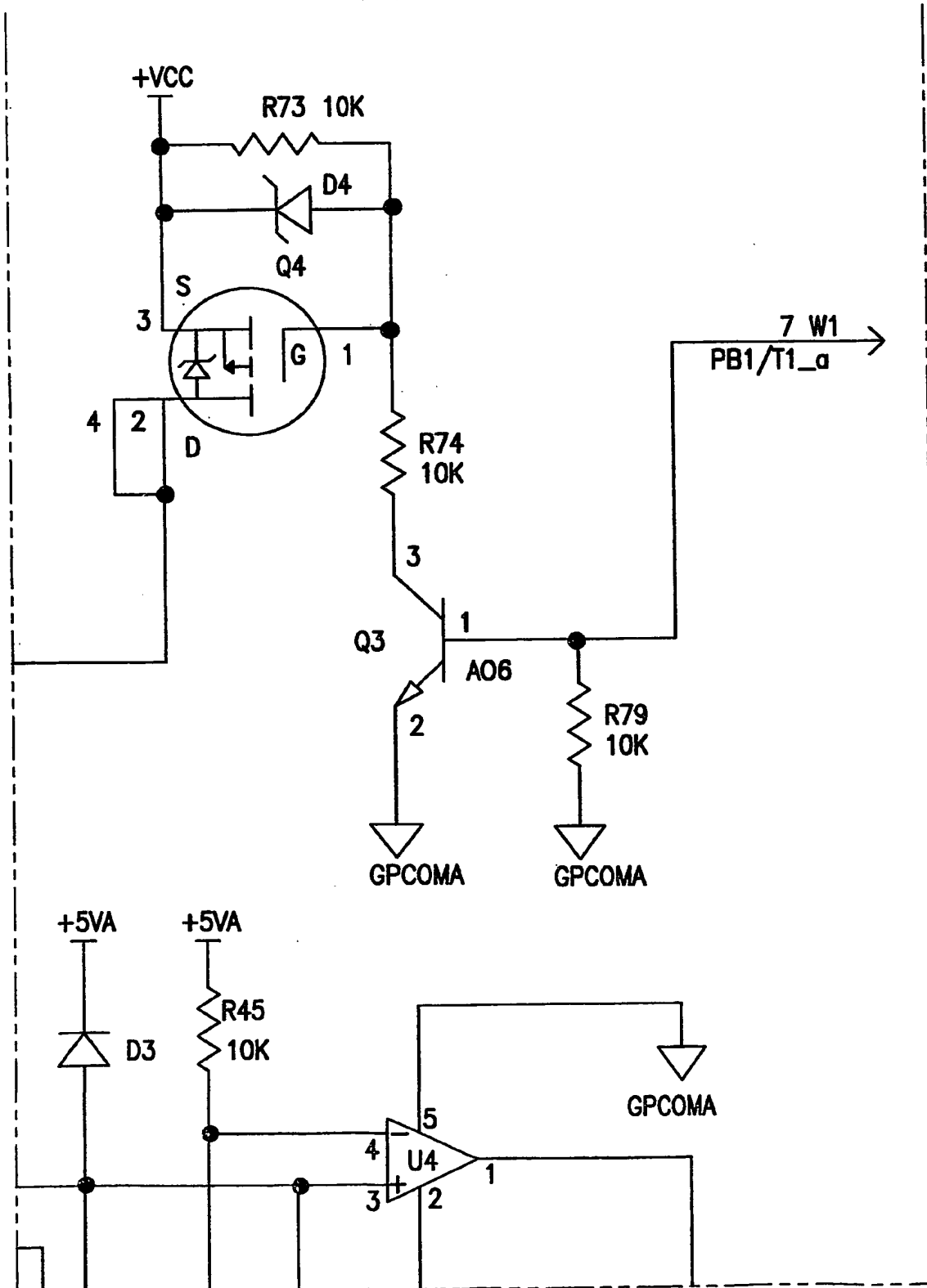
FIG. 67A



# REPLACEMENT SHEET

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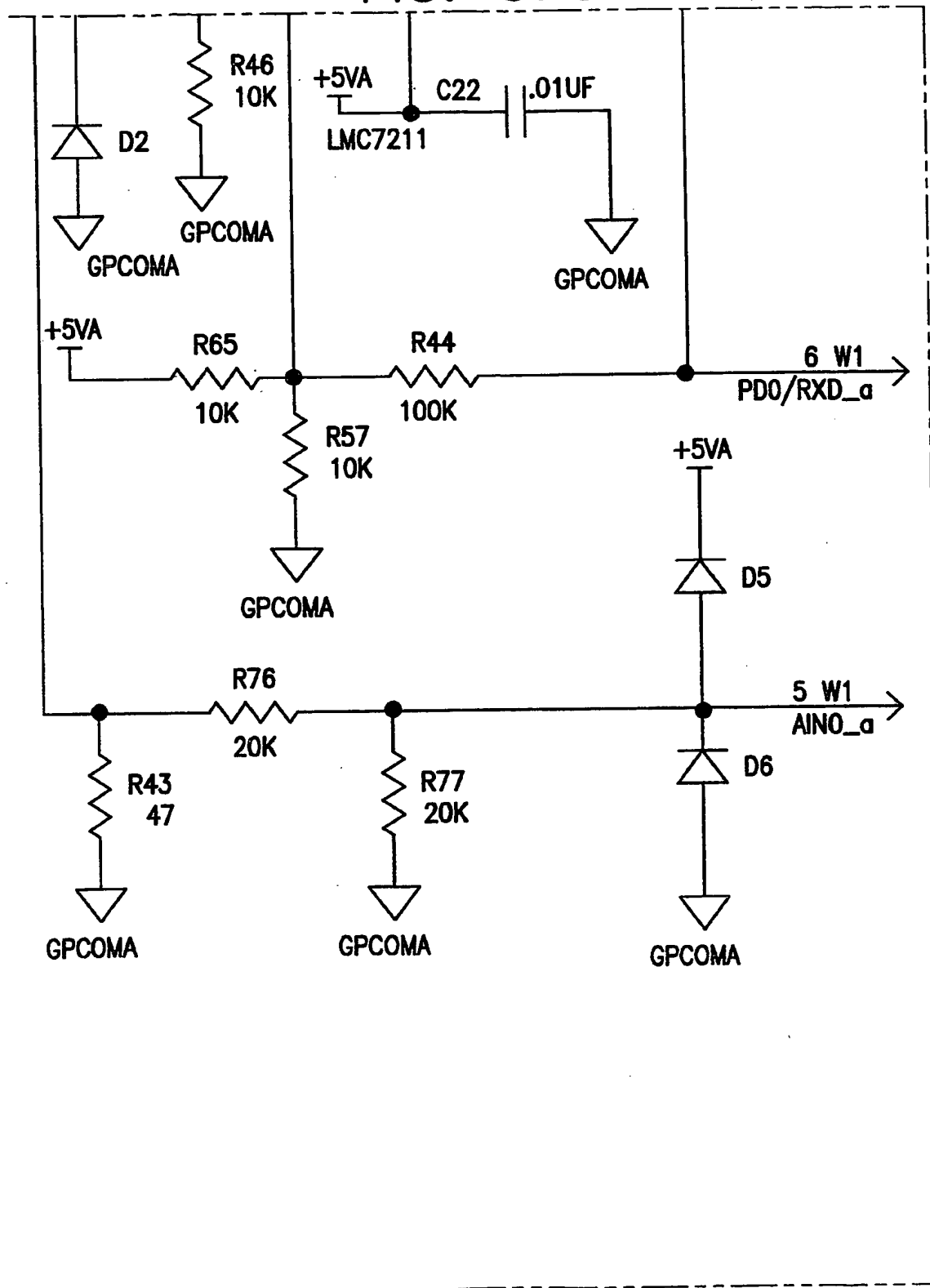
## FIG. 67B



# REPLACEMENT SHEET

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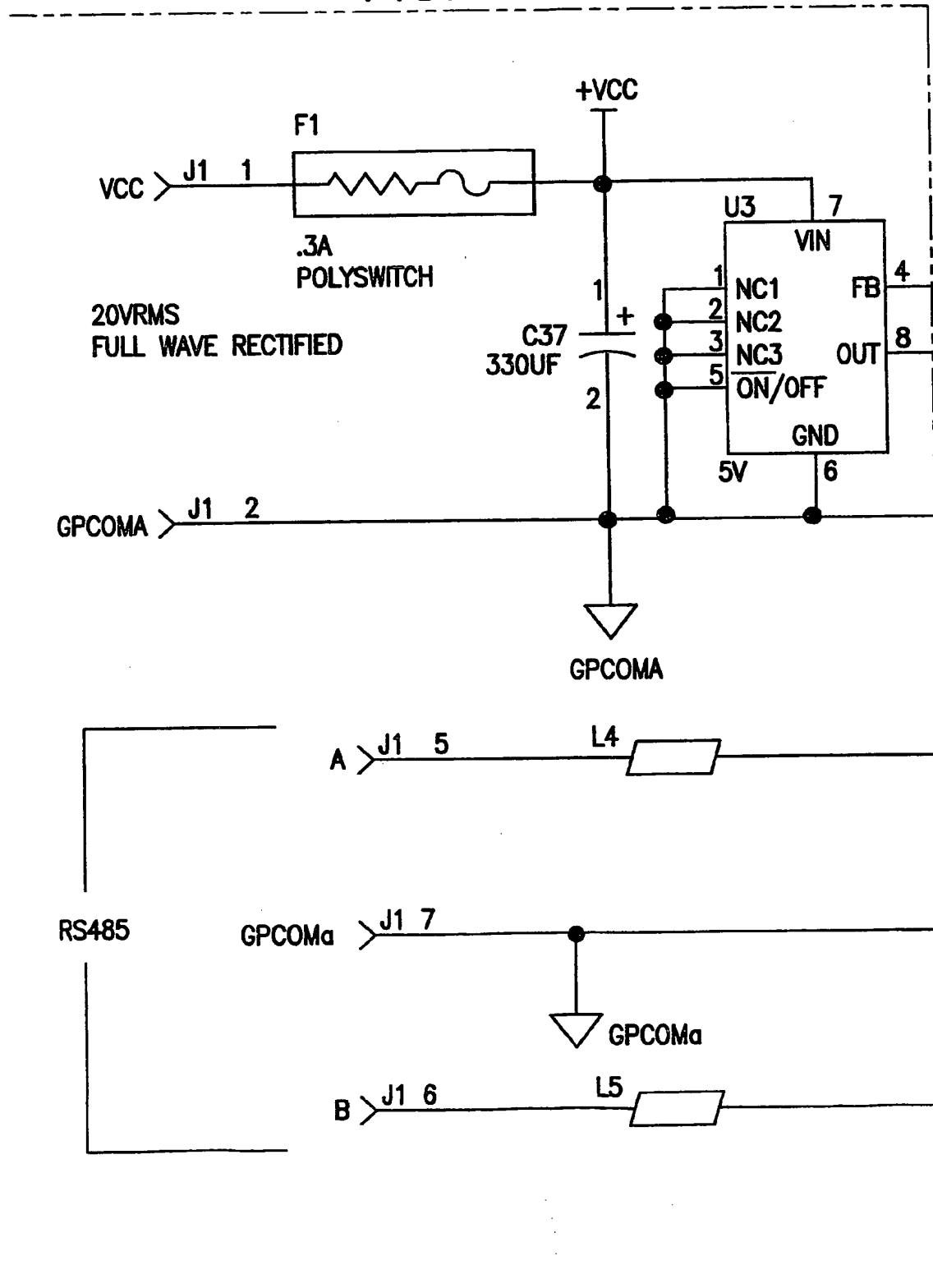
## FIG. 67C



# REPLACEMENT SHEET

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## FIG. 67D

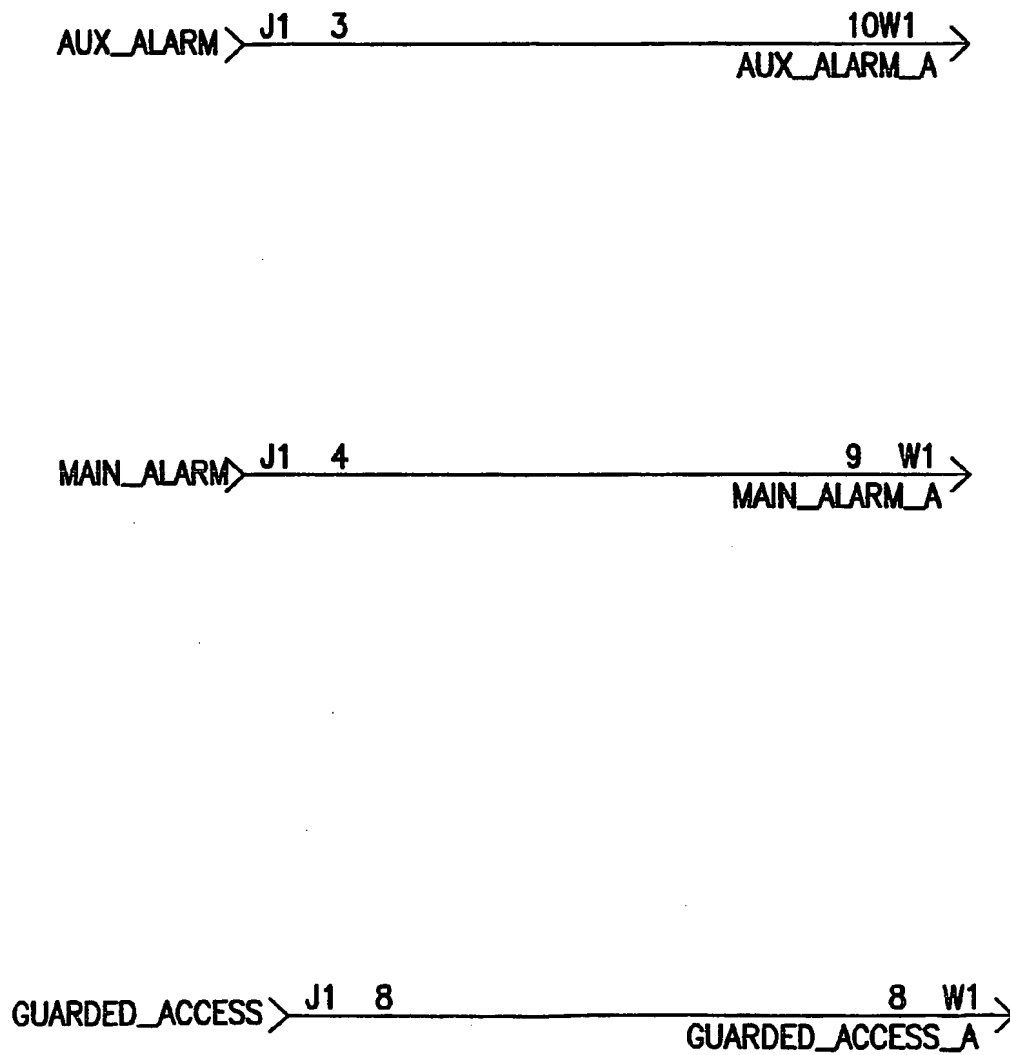




REPLACEMENT SHEET

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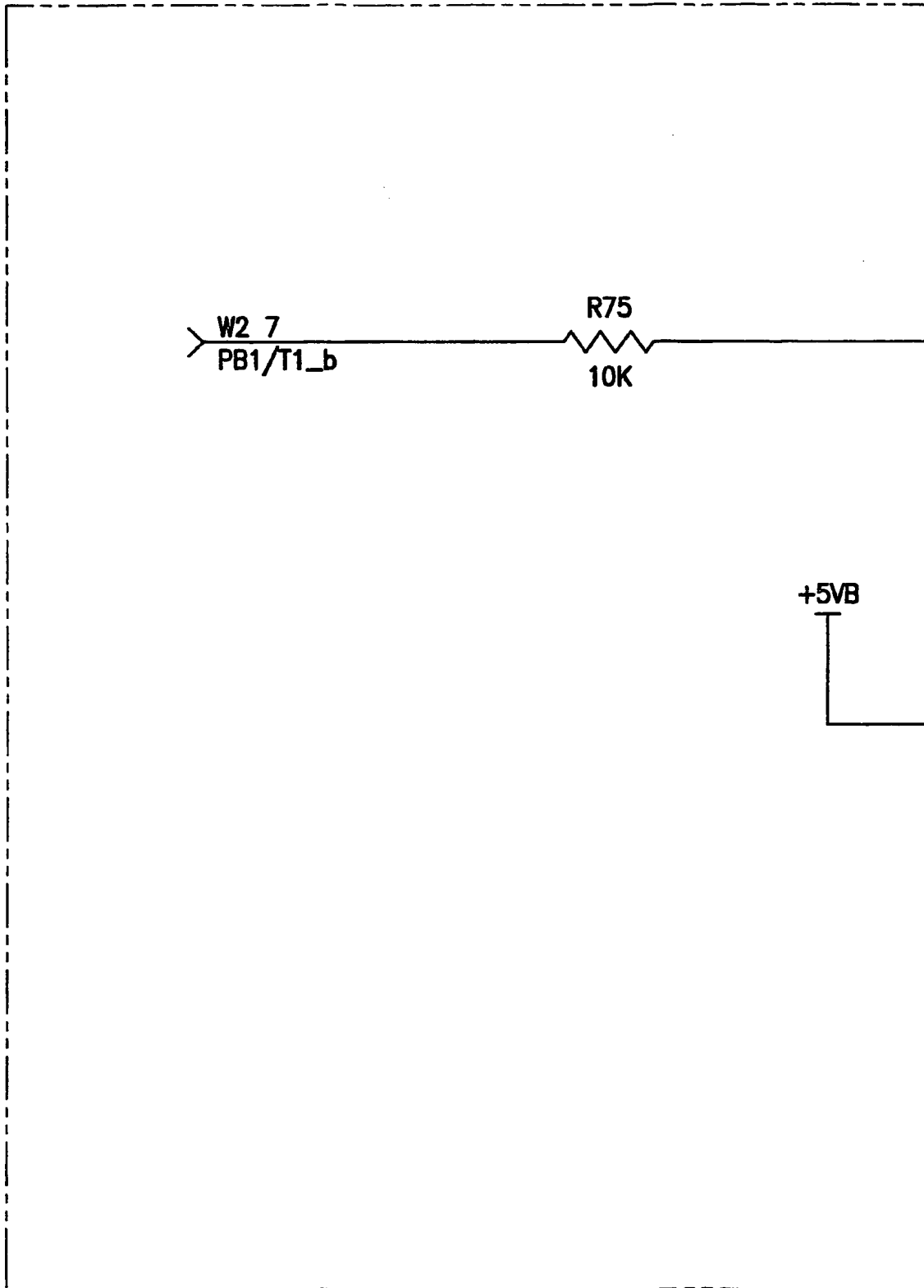
FIG. 67E



REPLACEMENT SHEET

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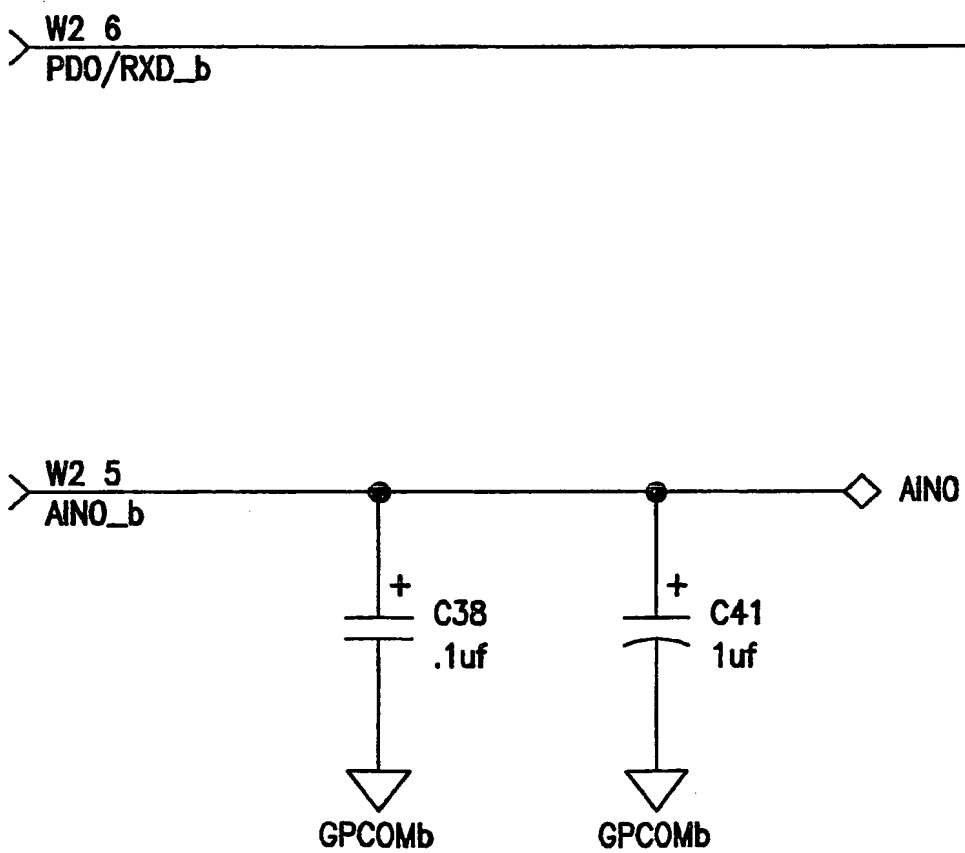
FIG. 67F



REPLACEMENT SHEET

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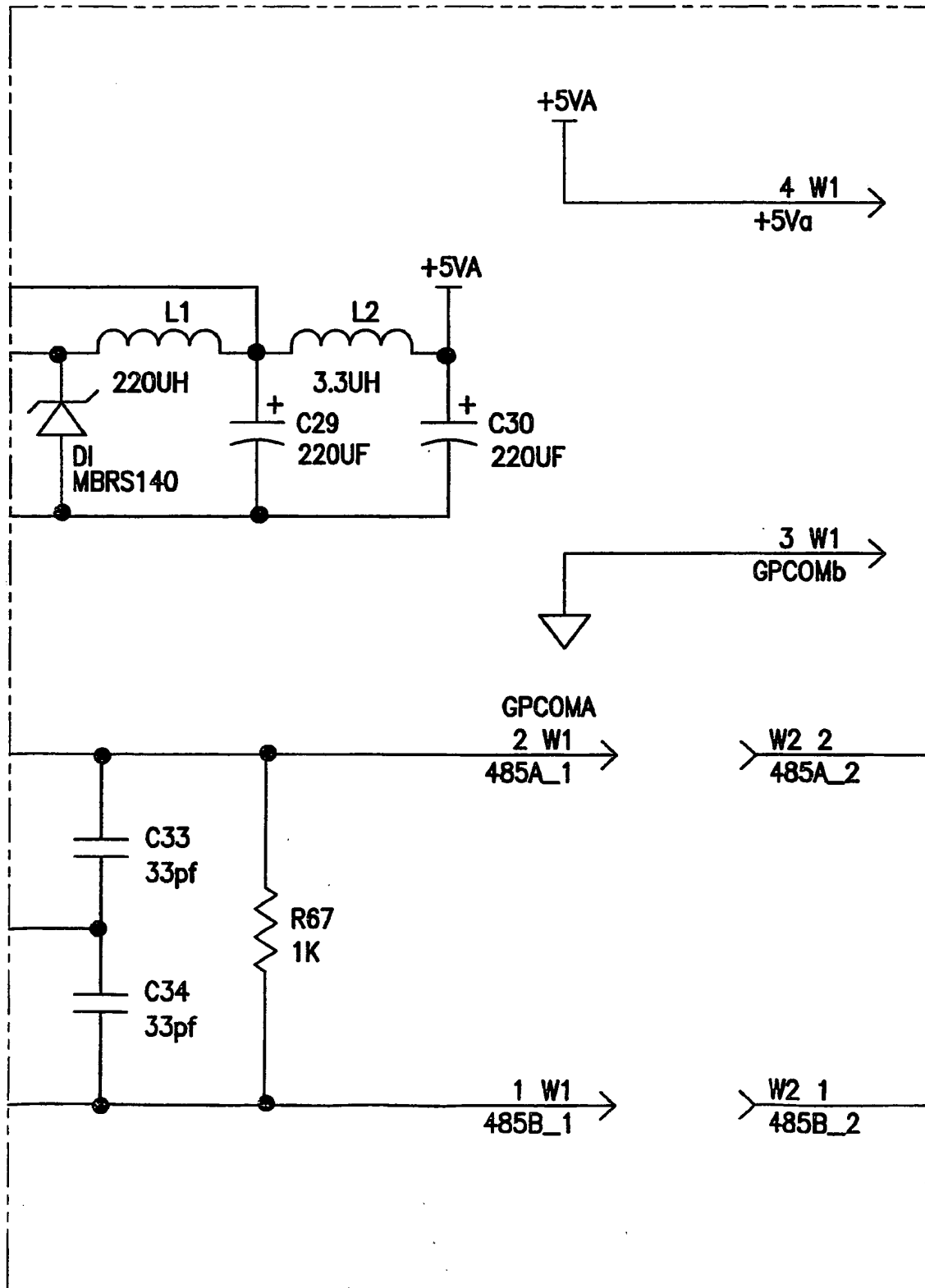
FIG. 67G



# REPLACEMENT SHEET

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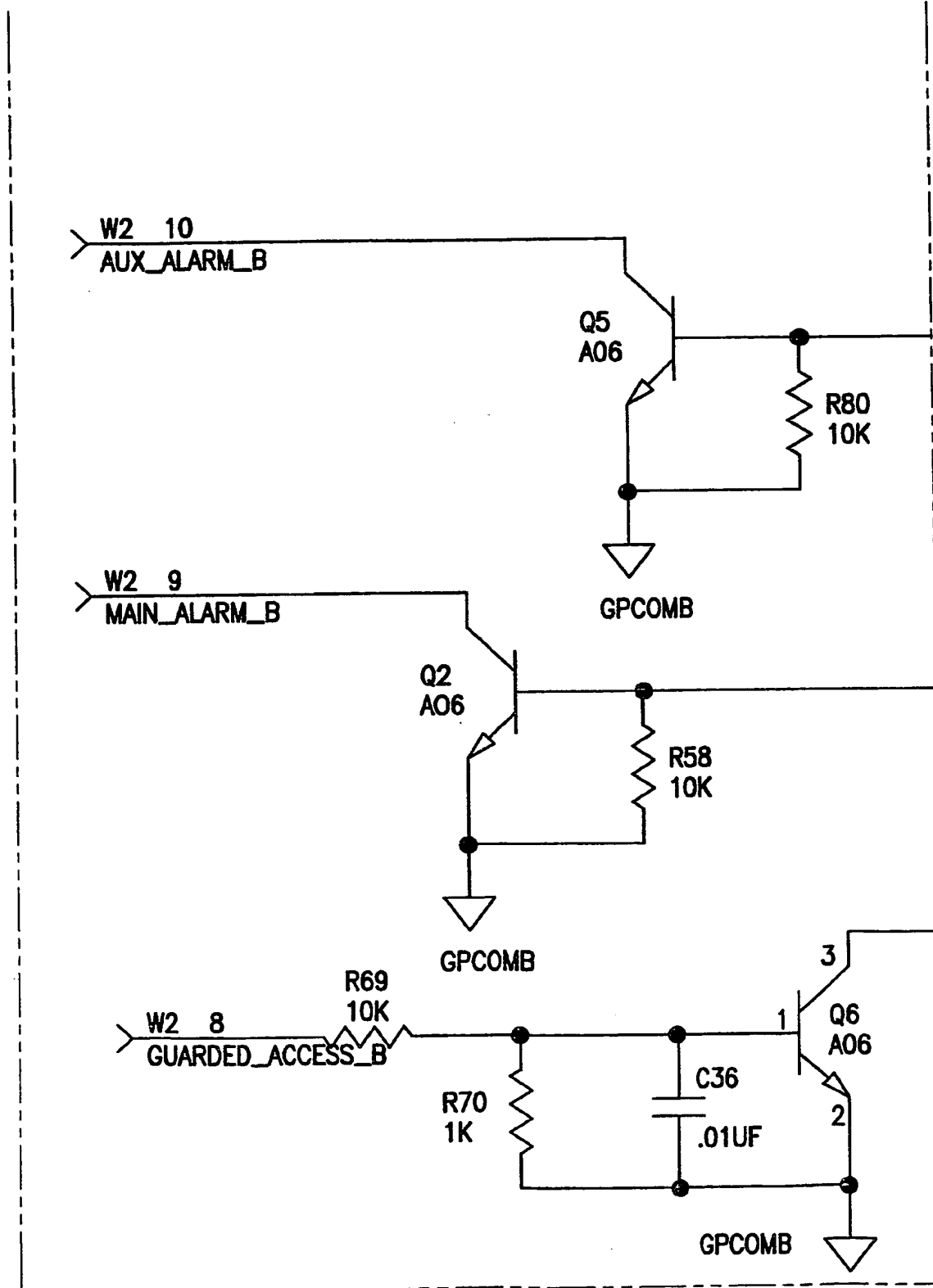
## FIG. 67H



REPLACEMENT SHEET

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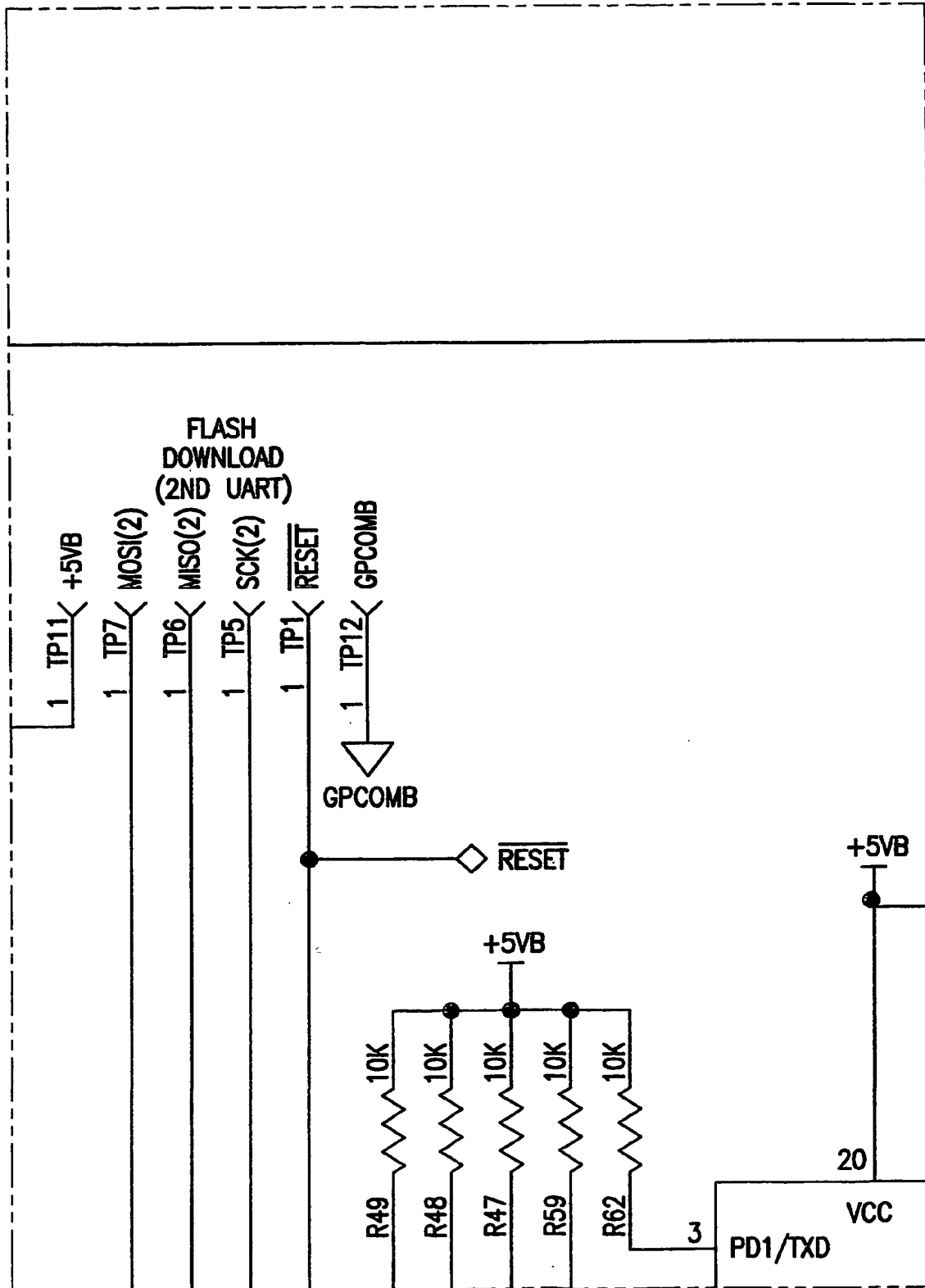
FIG. 67I



# REPLACEMENT SHEET

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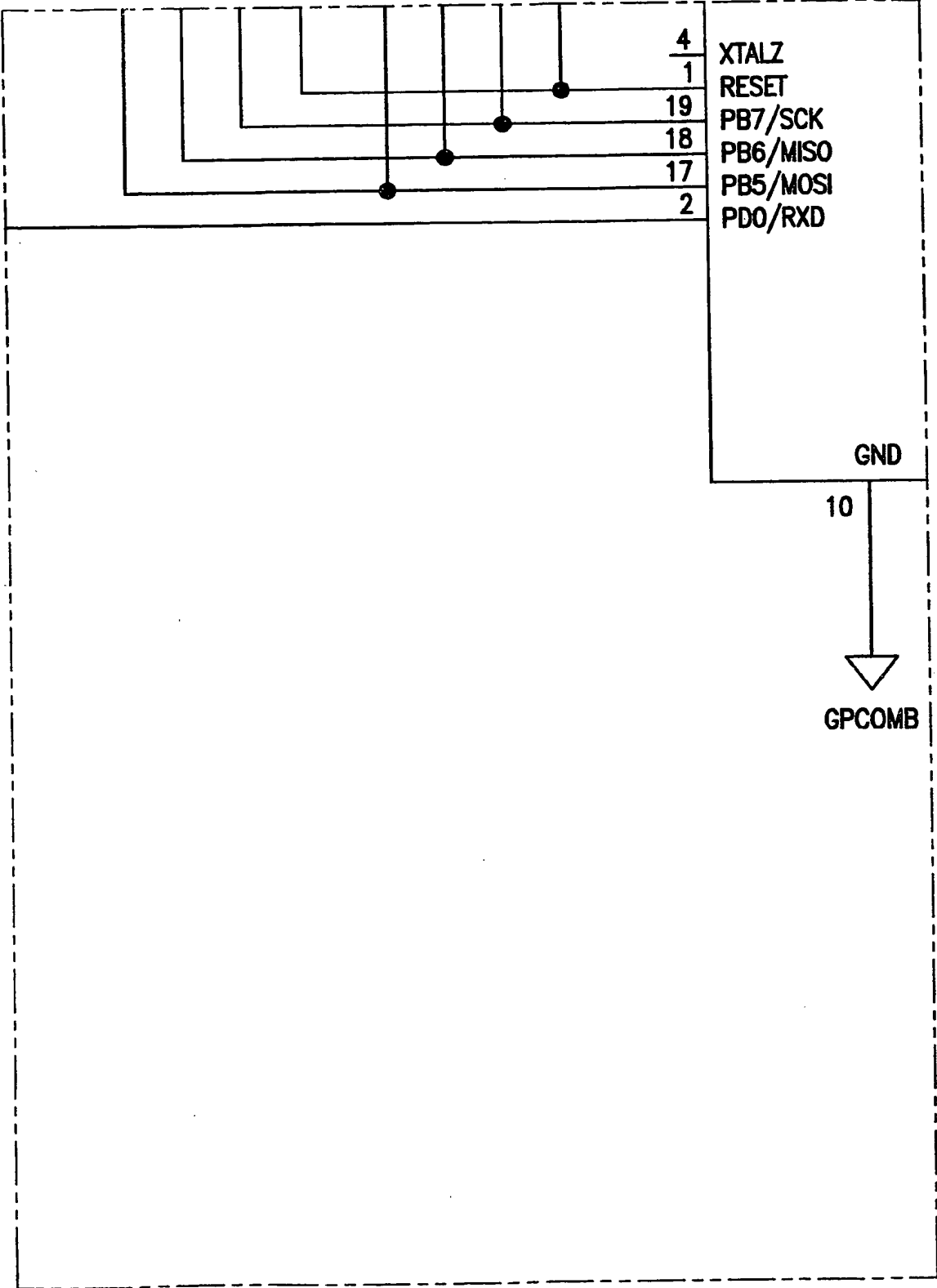
## FIG. 67J



REPLACEMENT SHEET

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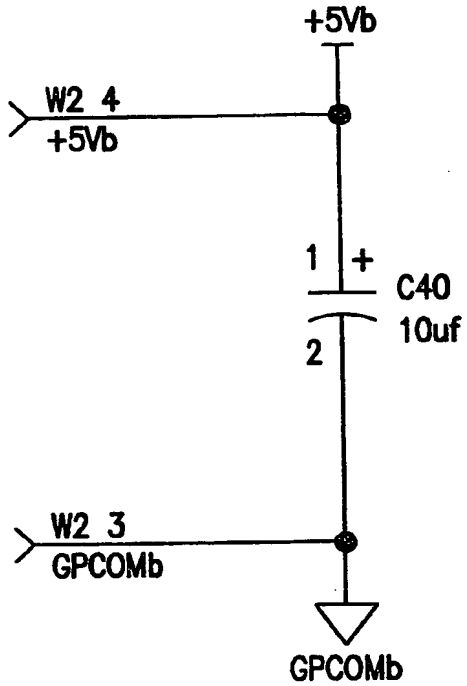
FIG. 67K



REPLACEMENT SHEET

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FIG. 67L

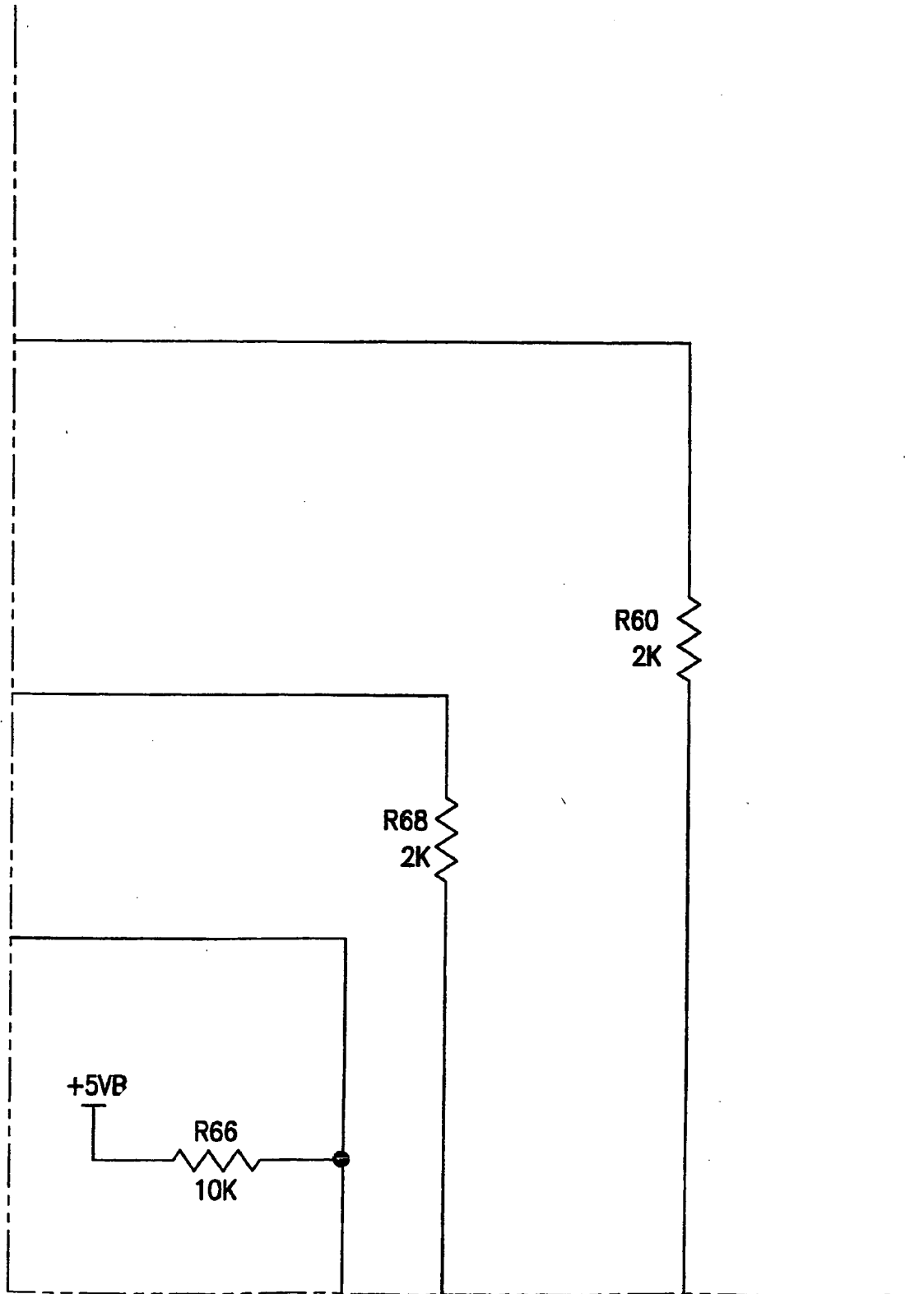




REPLACEMENT SHEET

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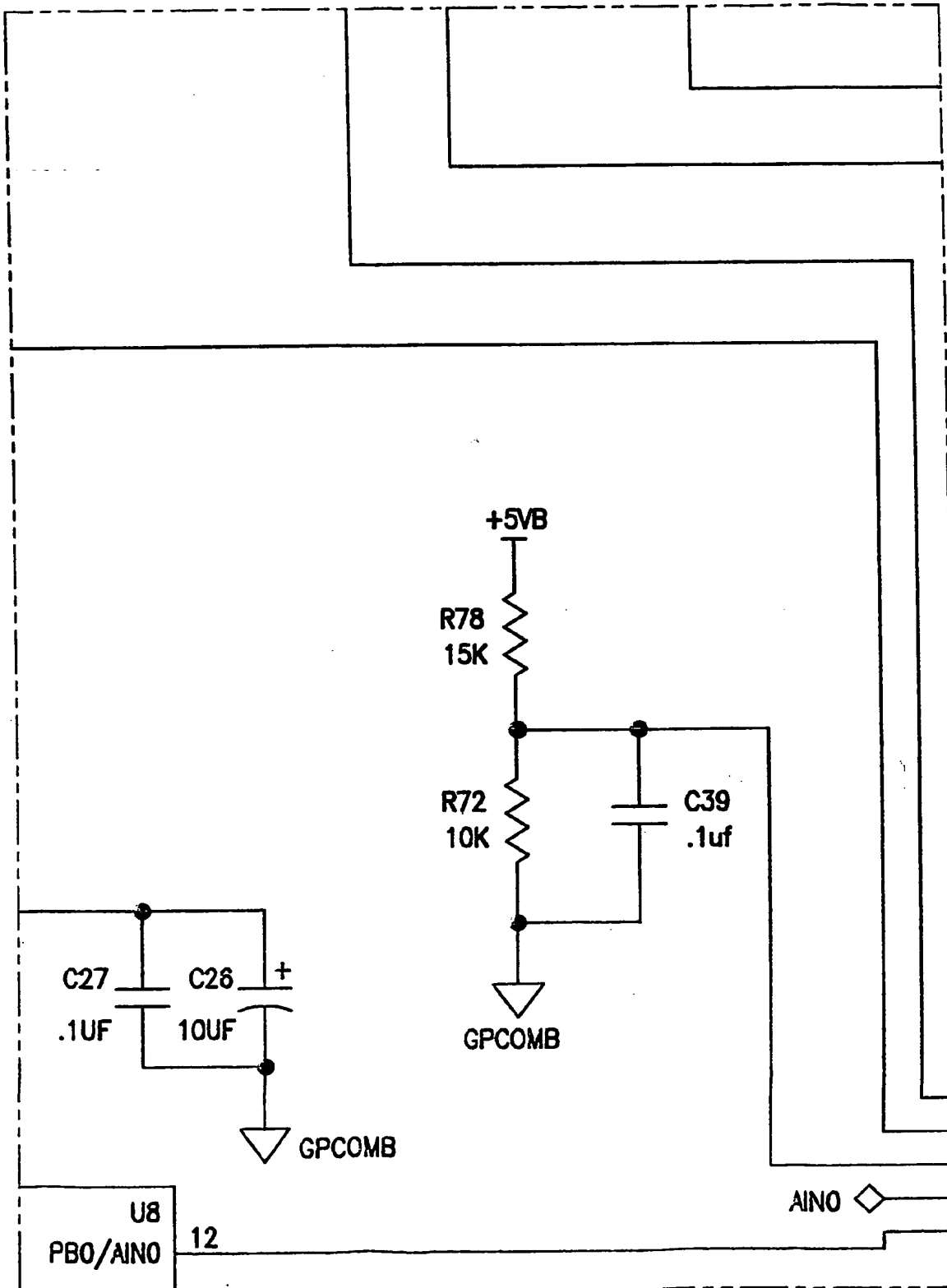
FIG. 67M



# REPLACEMENT SHEET

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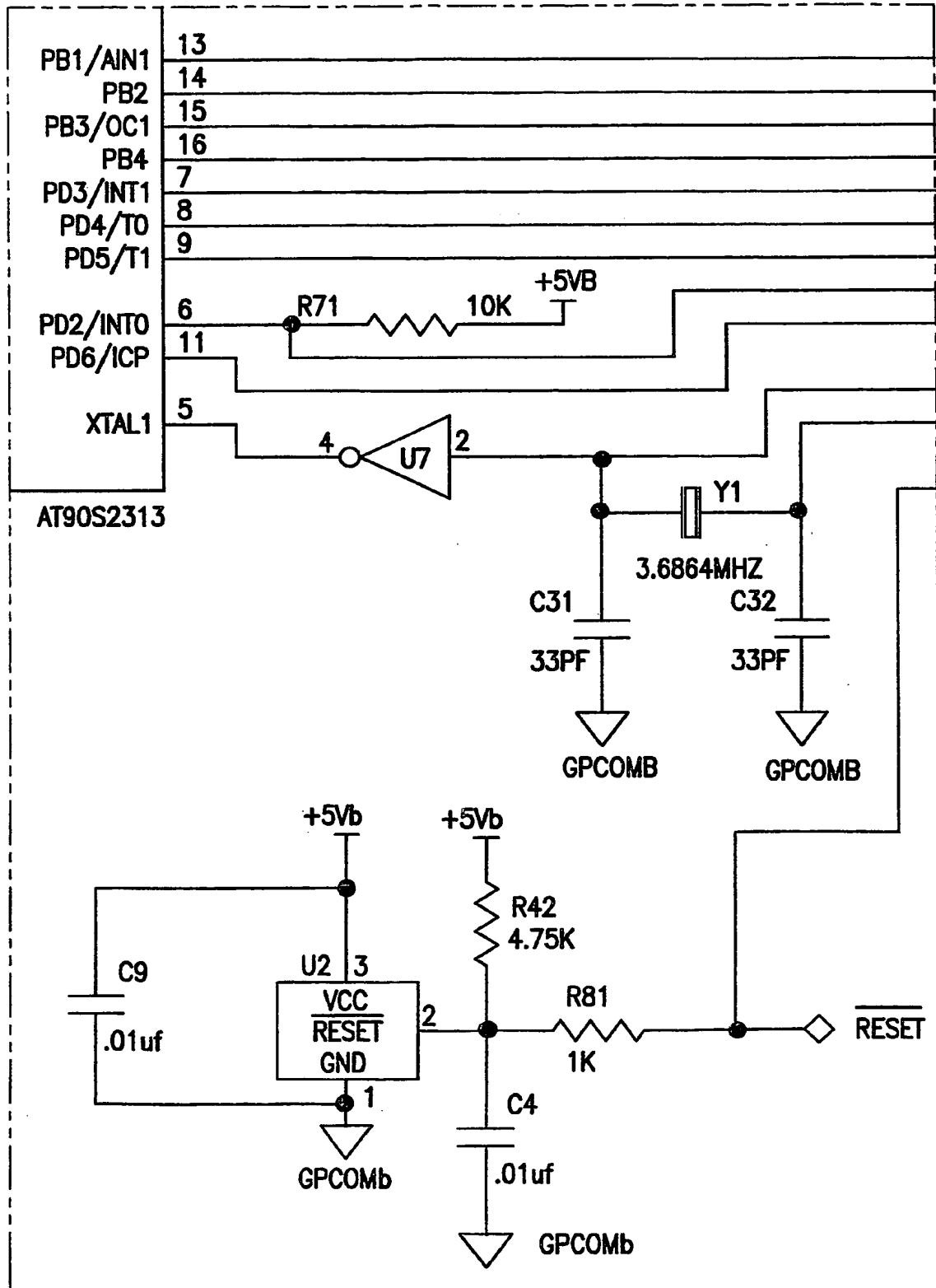
## FIG. 67N



# REPLACEMENT SHEET

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## FIG. 670



# REPLACEMENT SHEET

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## FIG. 67P

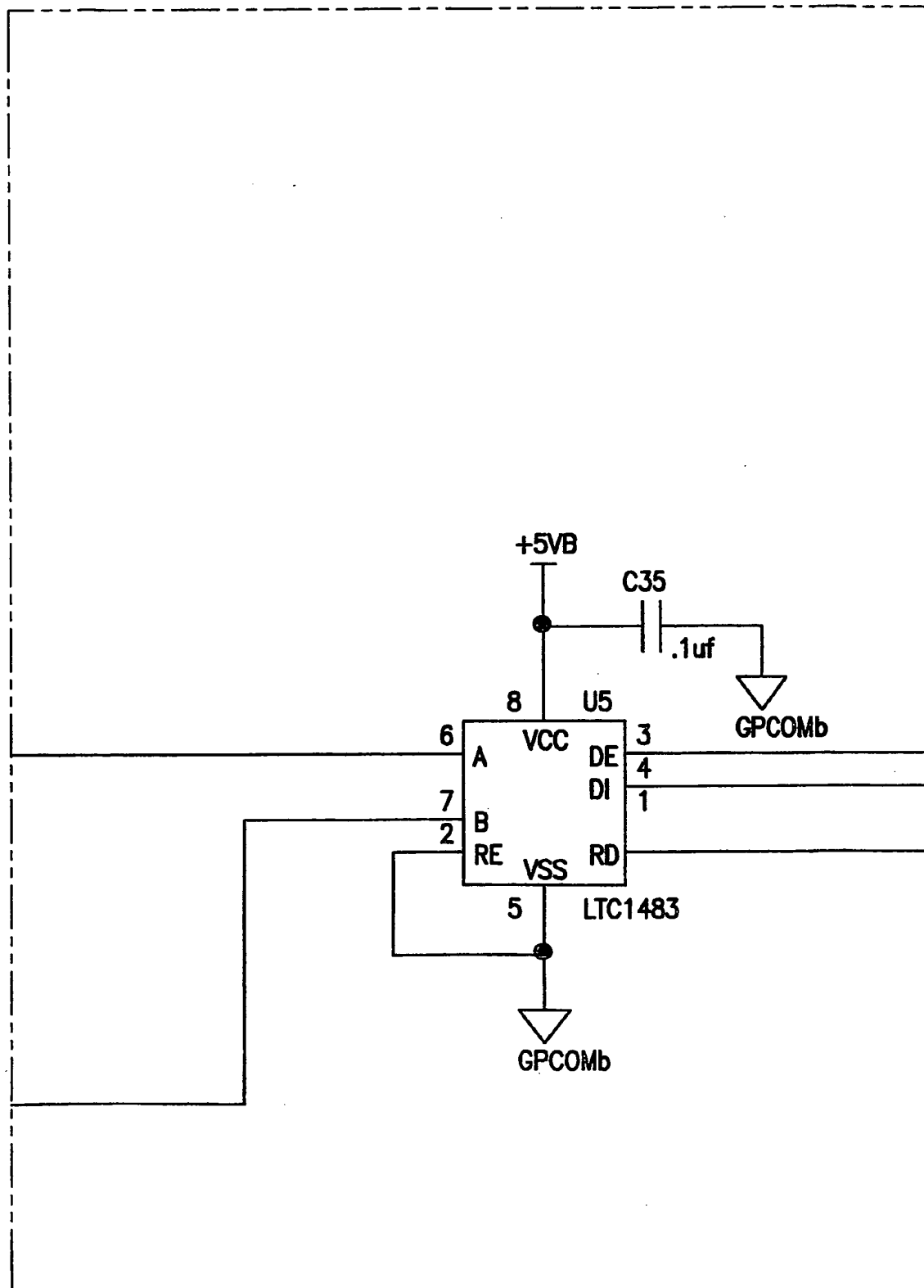
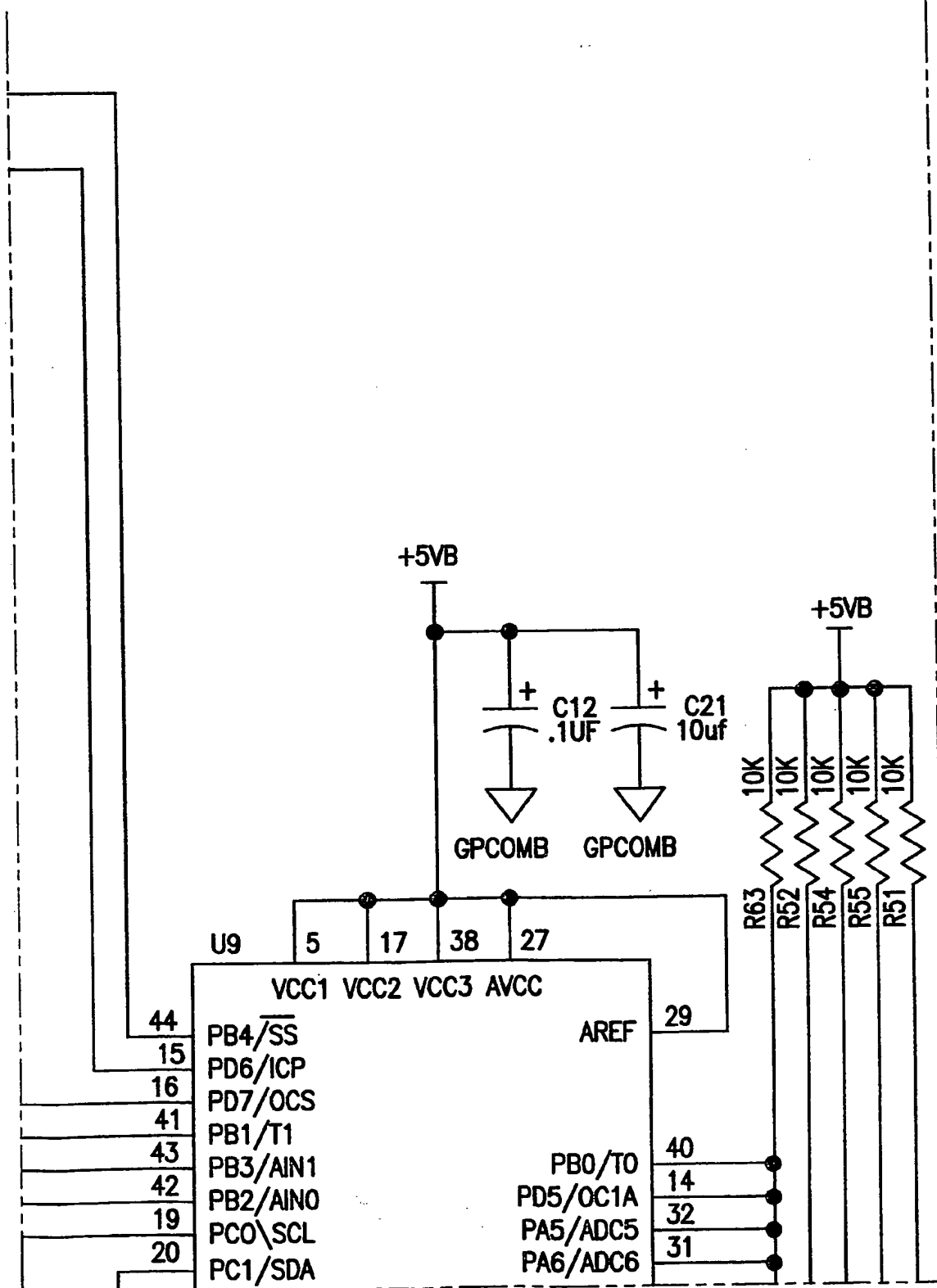


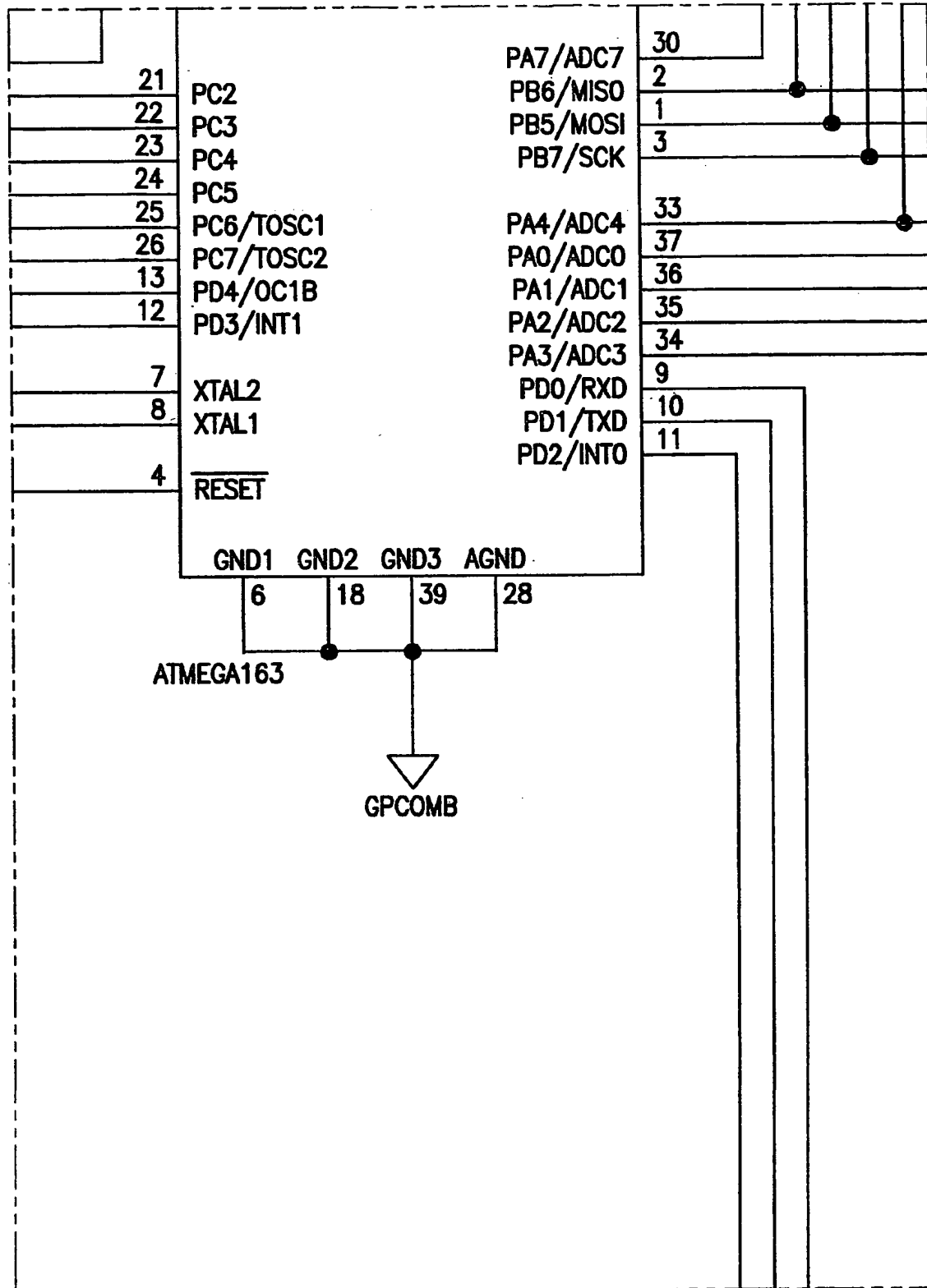
FIG. 67Q



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## FIG. 67R



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FIG. 67S

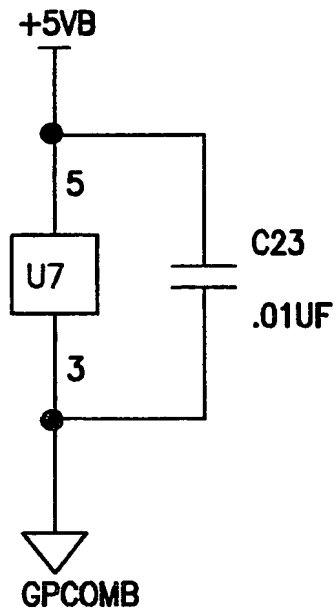
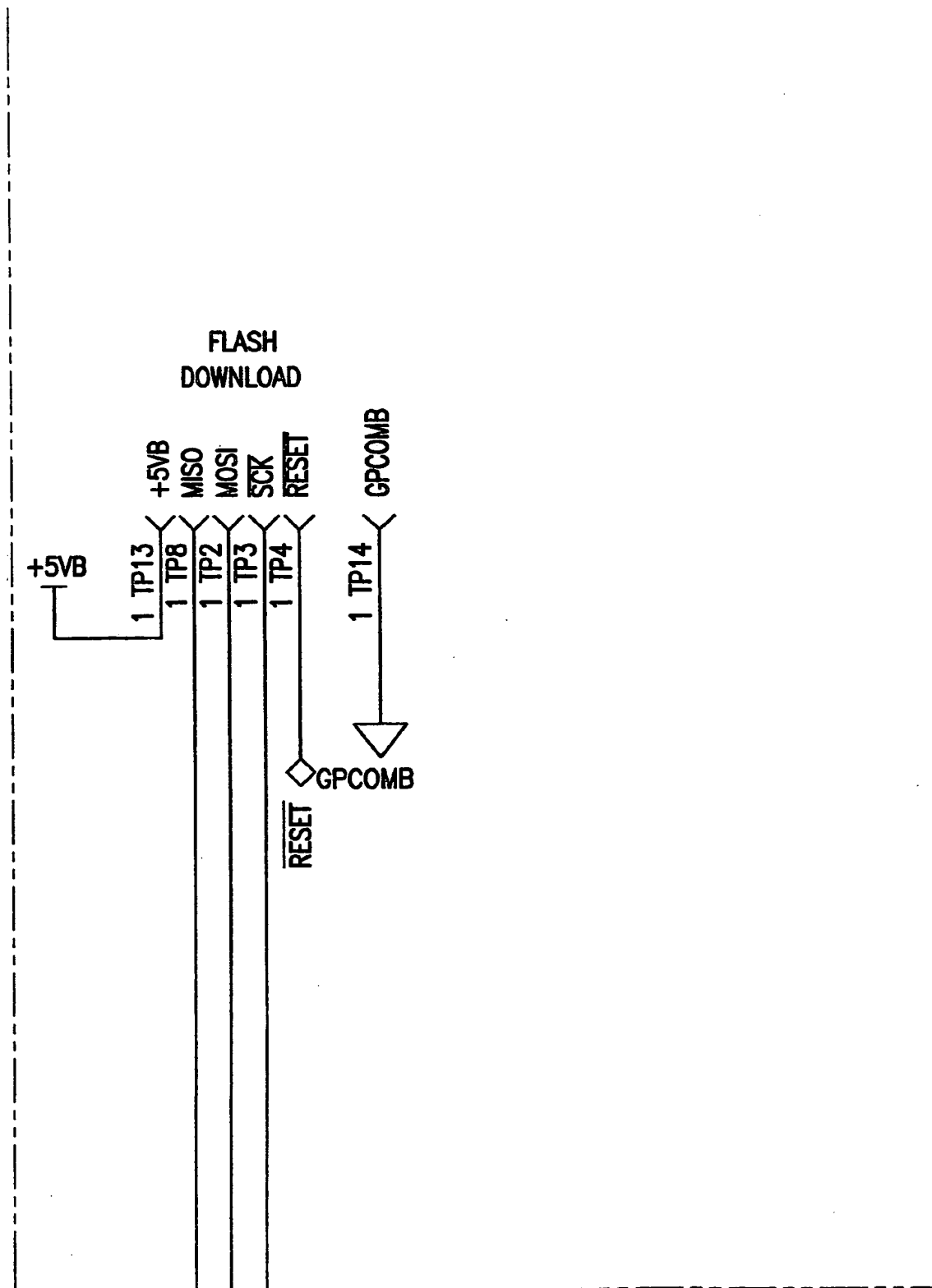


FIG. 67T

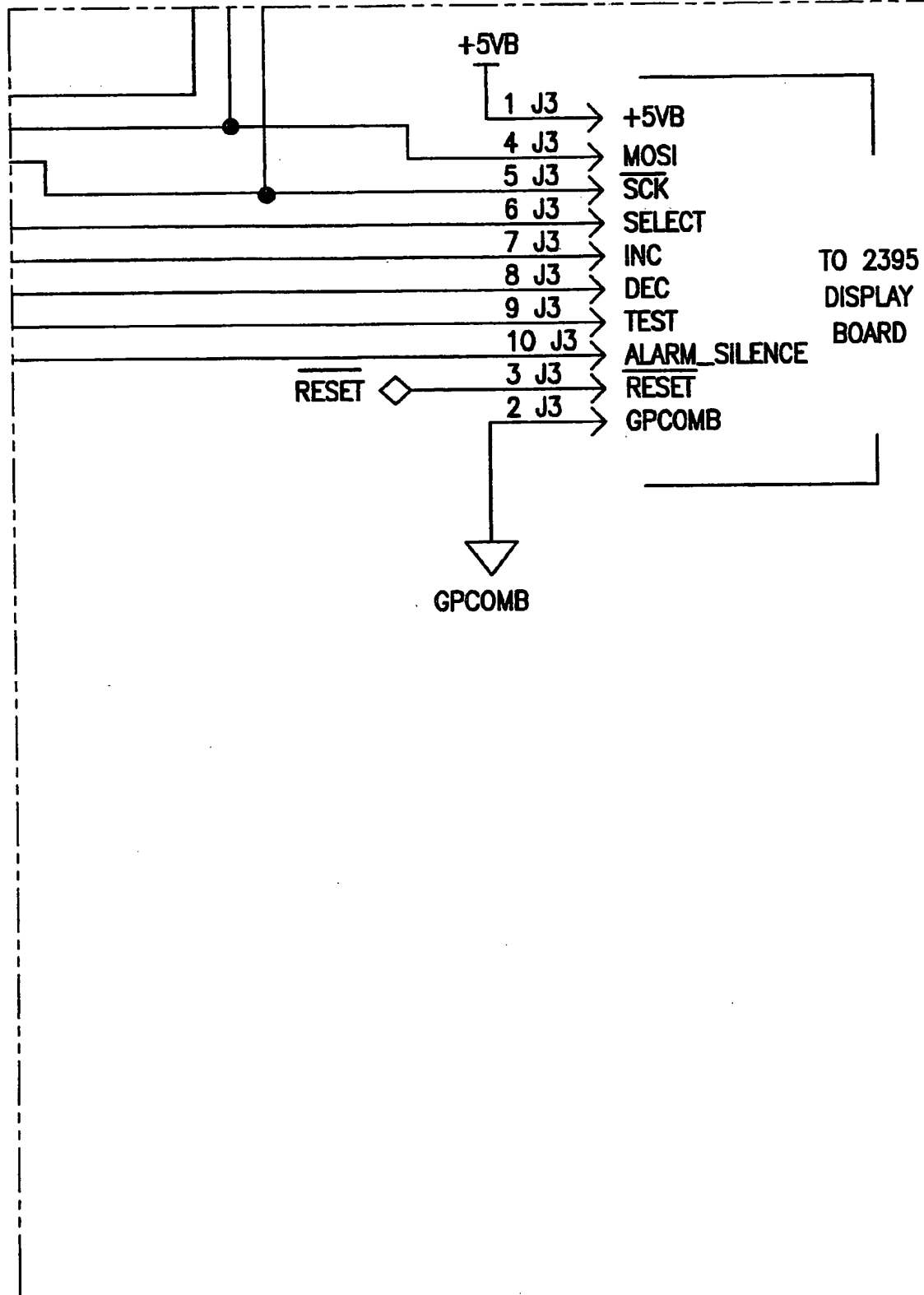




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## FIG. 67U



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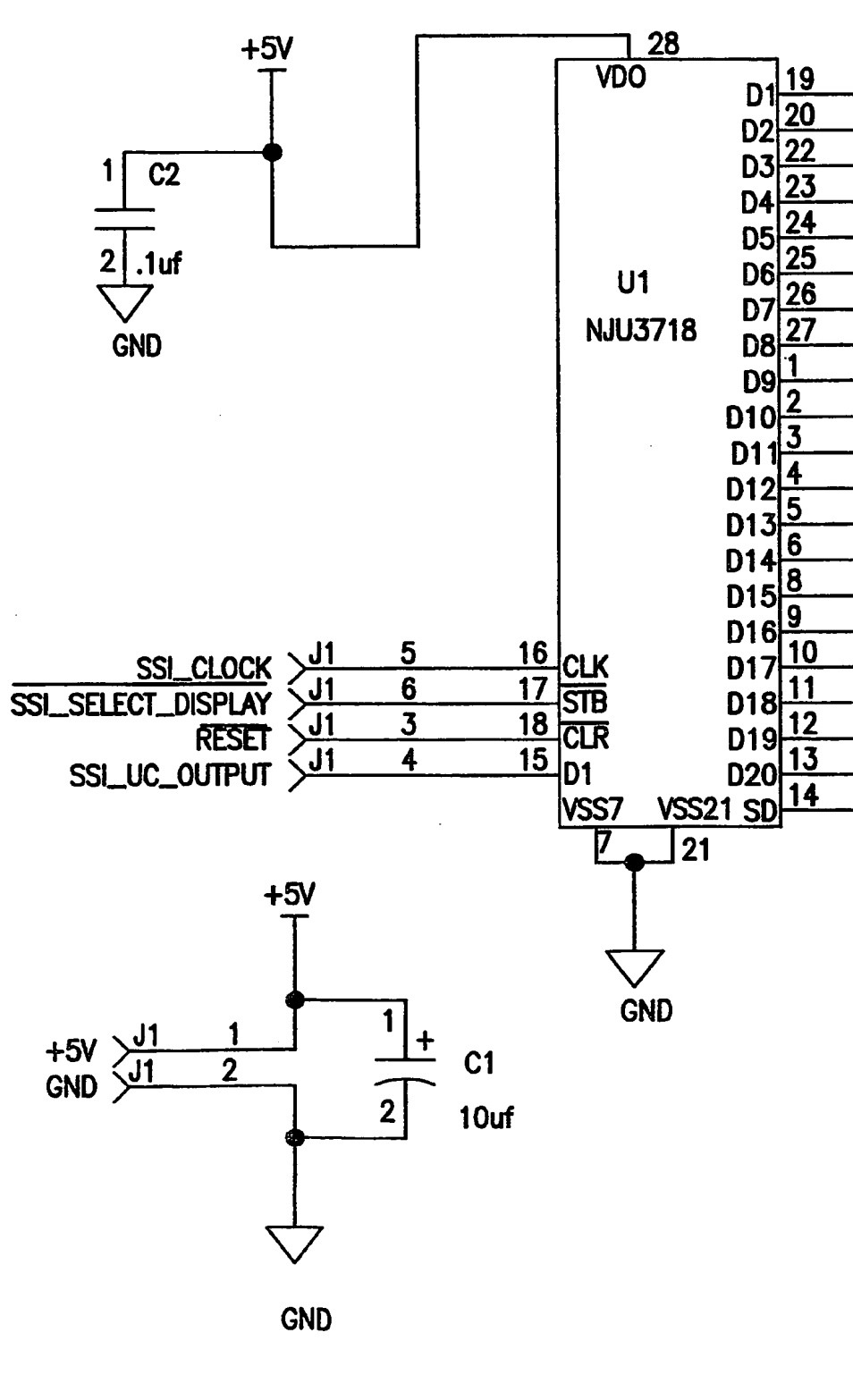
FIG. 68

	FIG. 68B	FIG. 68D	FIG. 68F	FIG. 68H	
FIG. 68A	FIG. 68C	FIG. 68E	FIG. 68G	FIG. 68I	FIG. 68J

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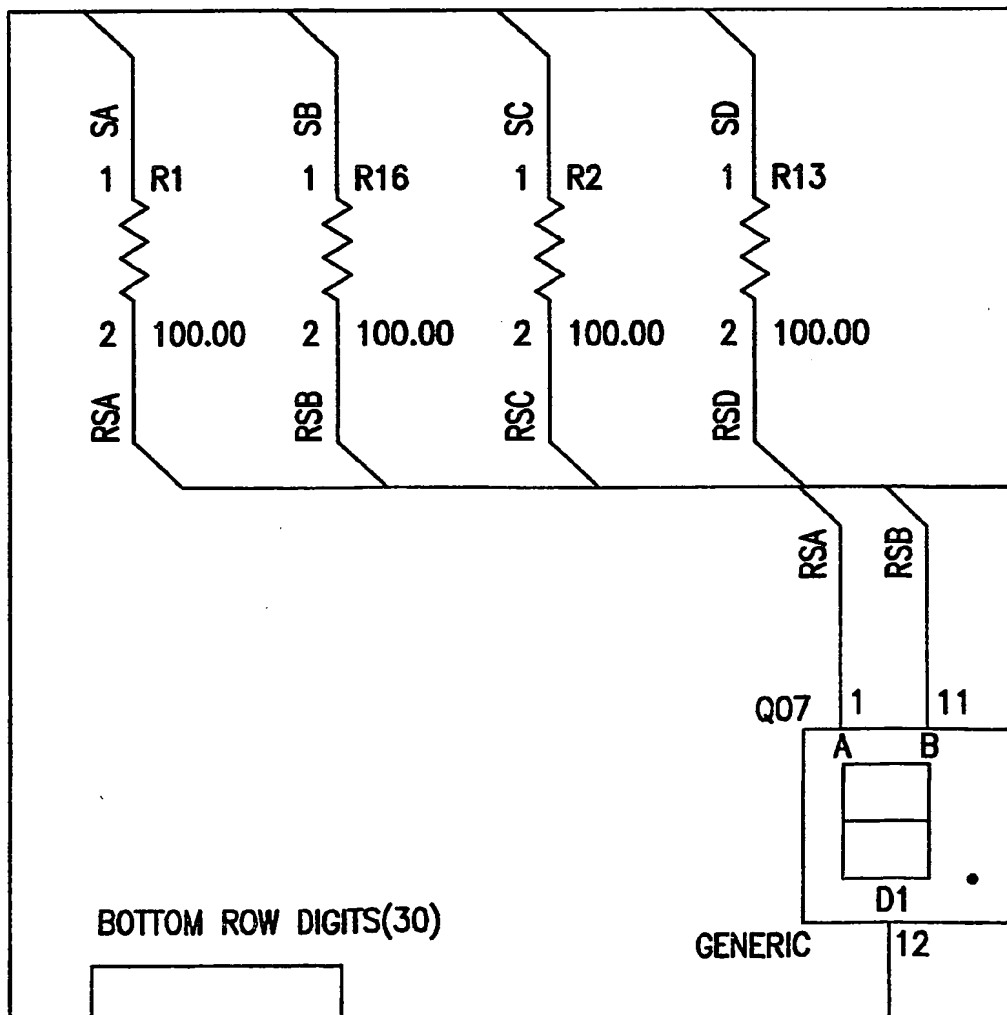
## FIG. 68A



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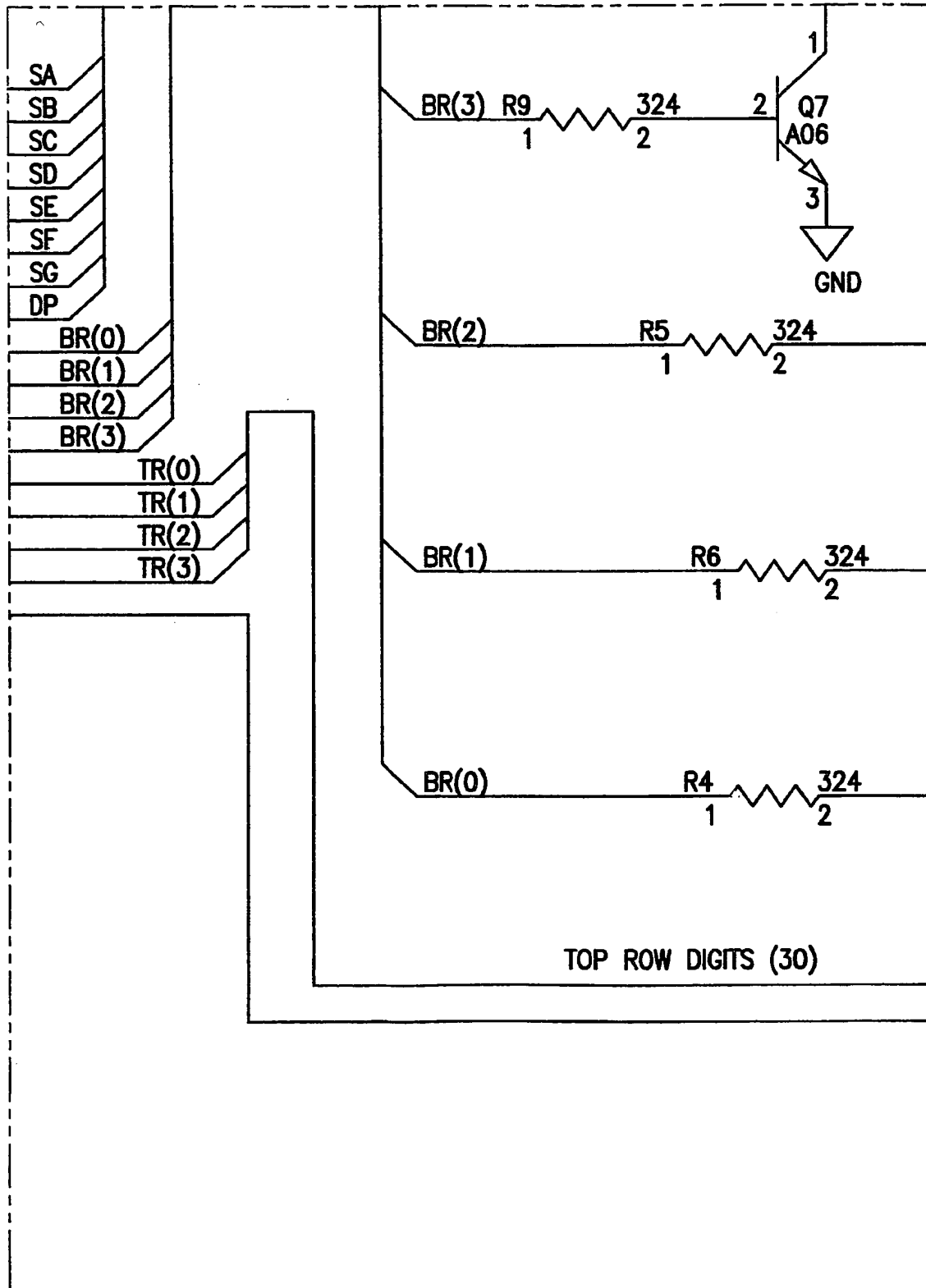
## FIG. 68B



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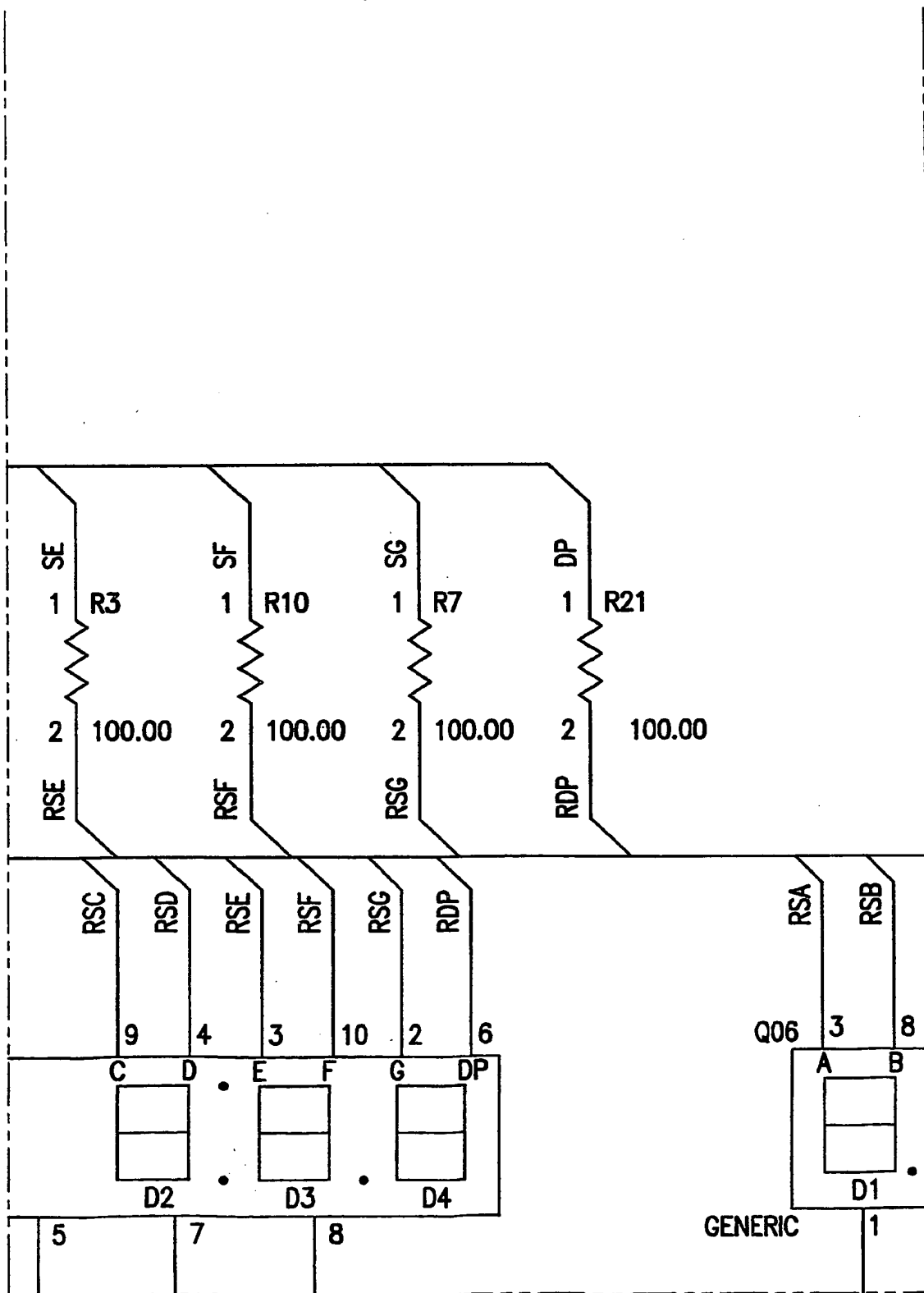
## FIG. 68C



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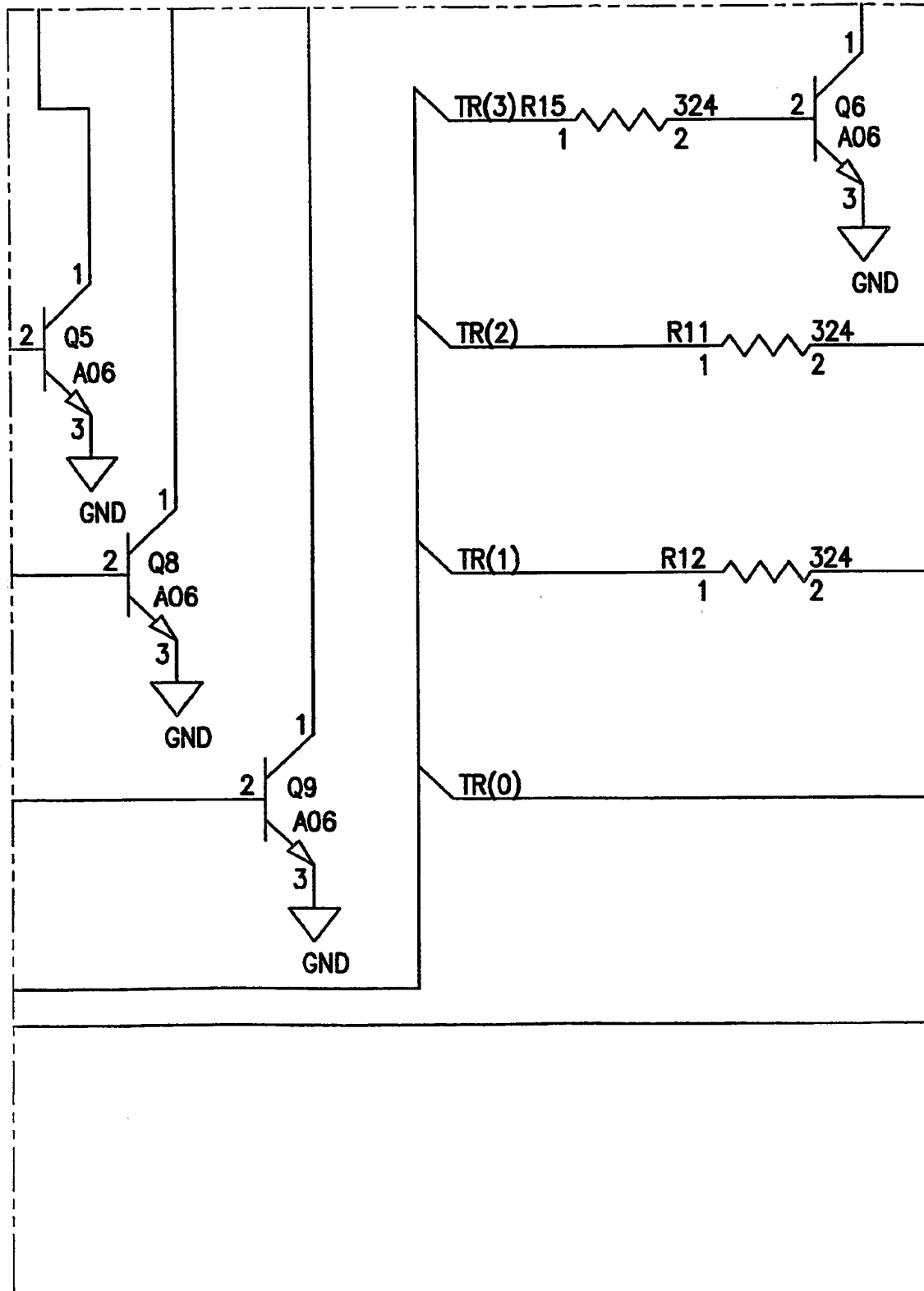
## FIG. 68D



# REPLACEMENT SHEET

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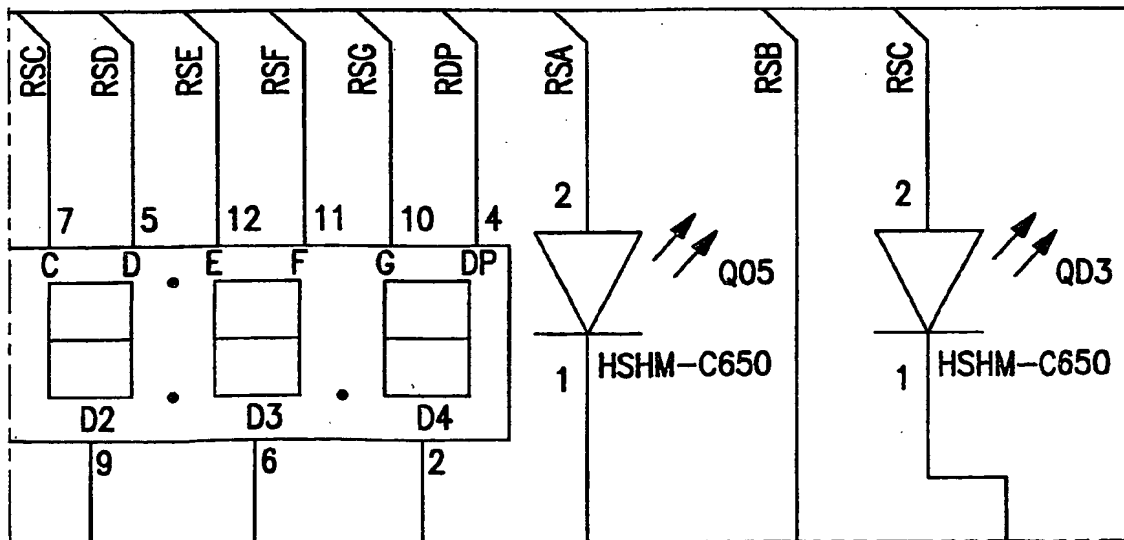
## FIG. 68E



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## FIG. 68F

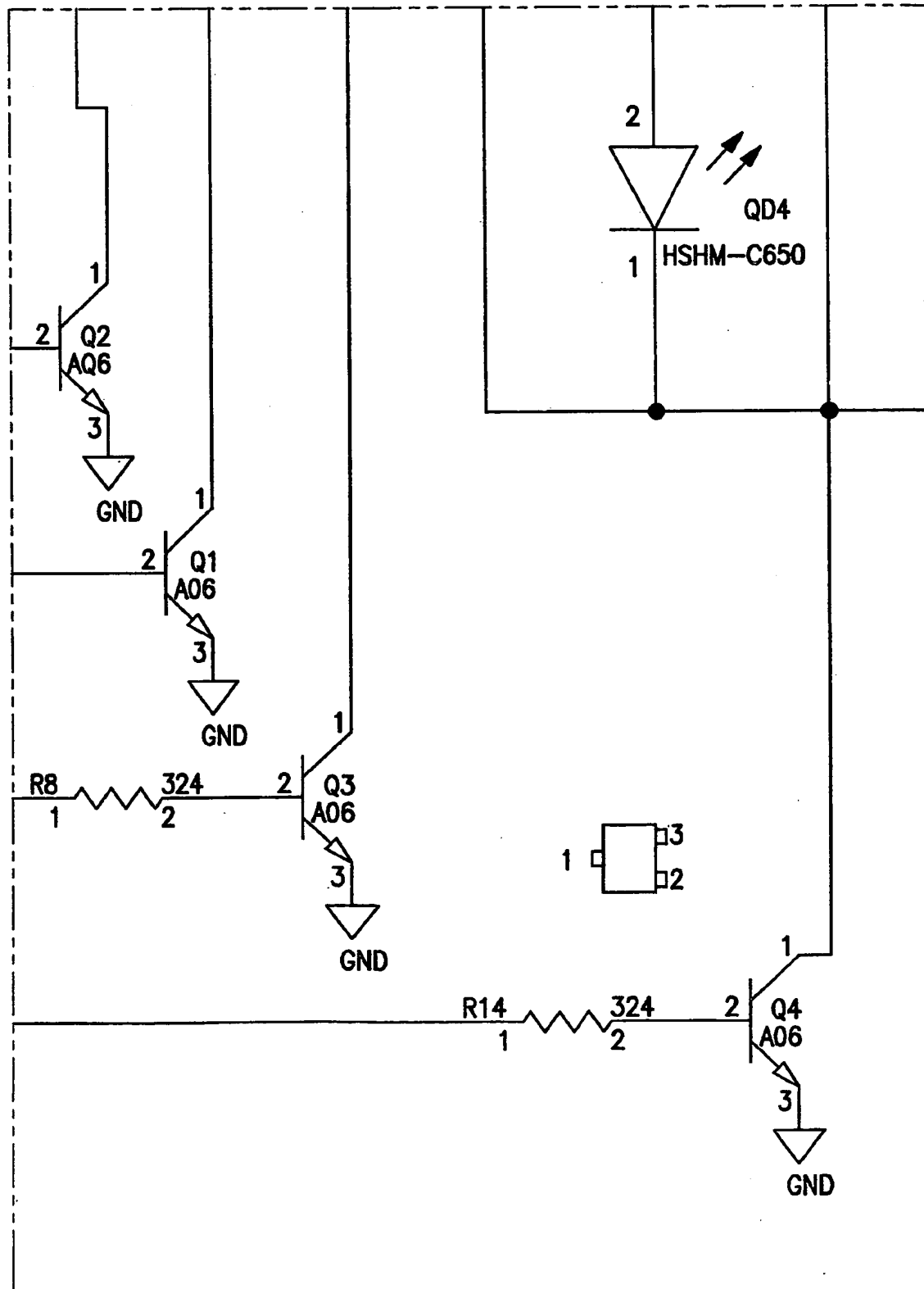




# REPLACEMENT SHEET

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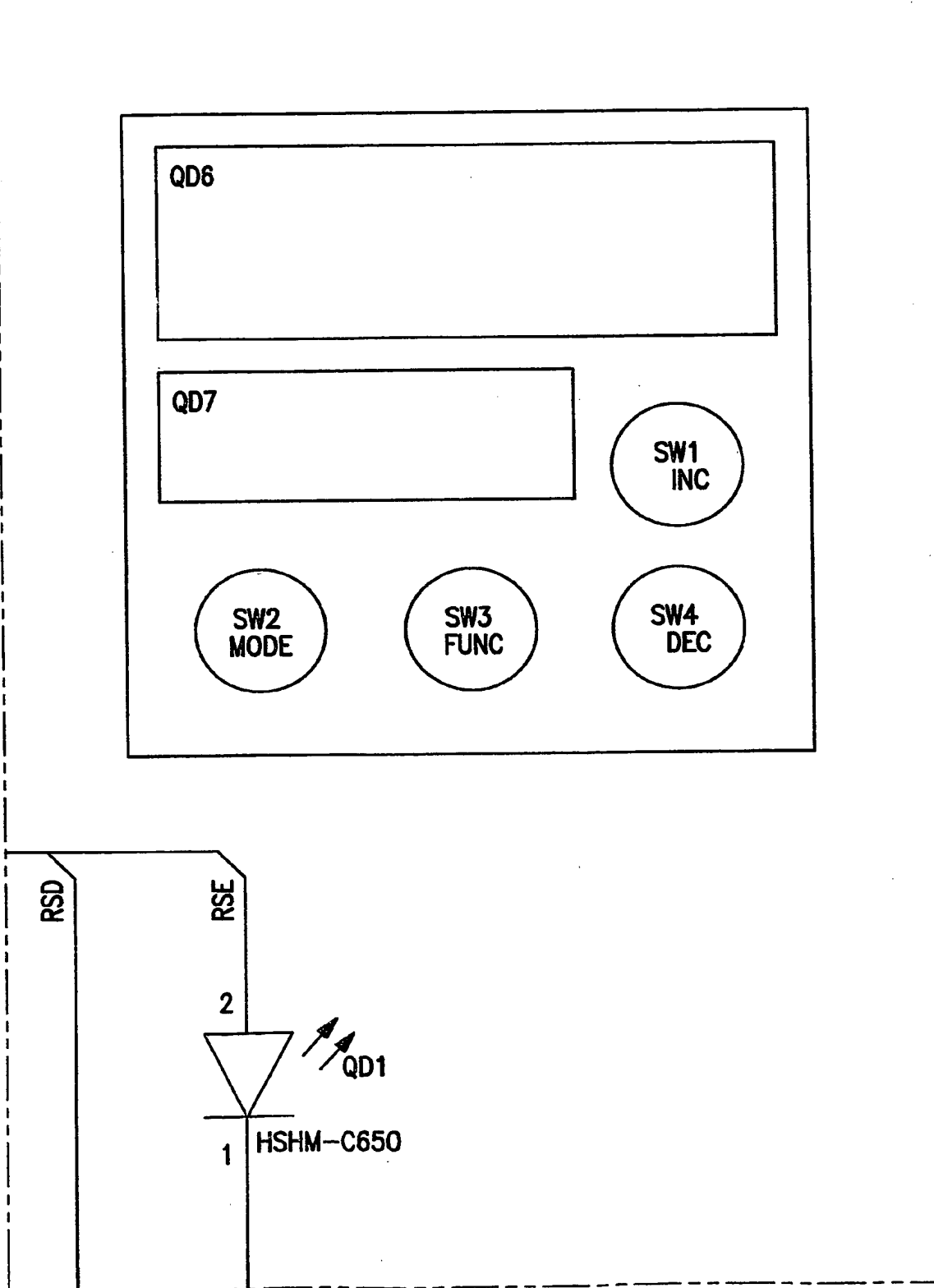
## FIG. 68G



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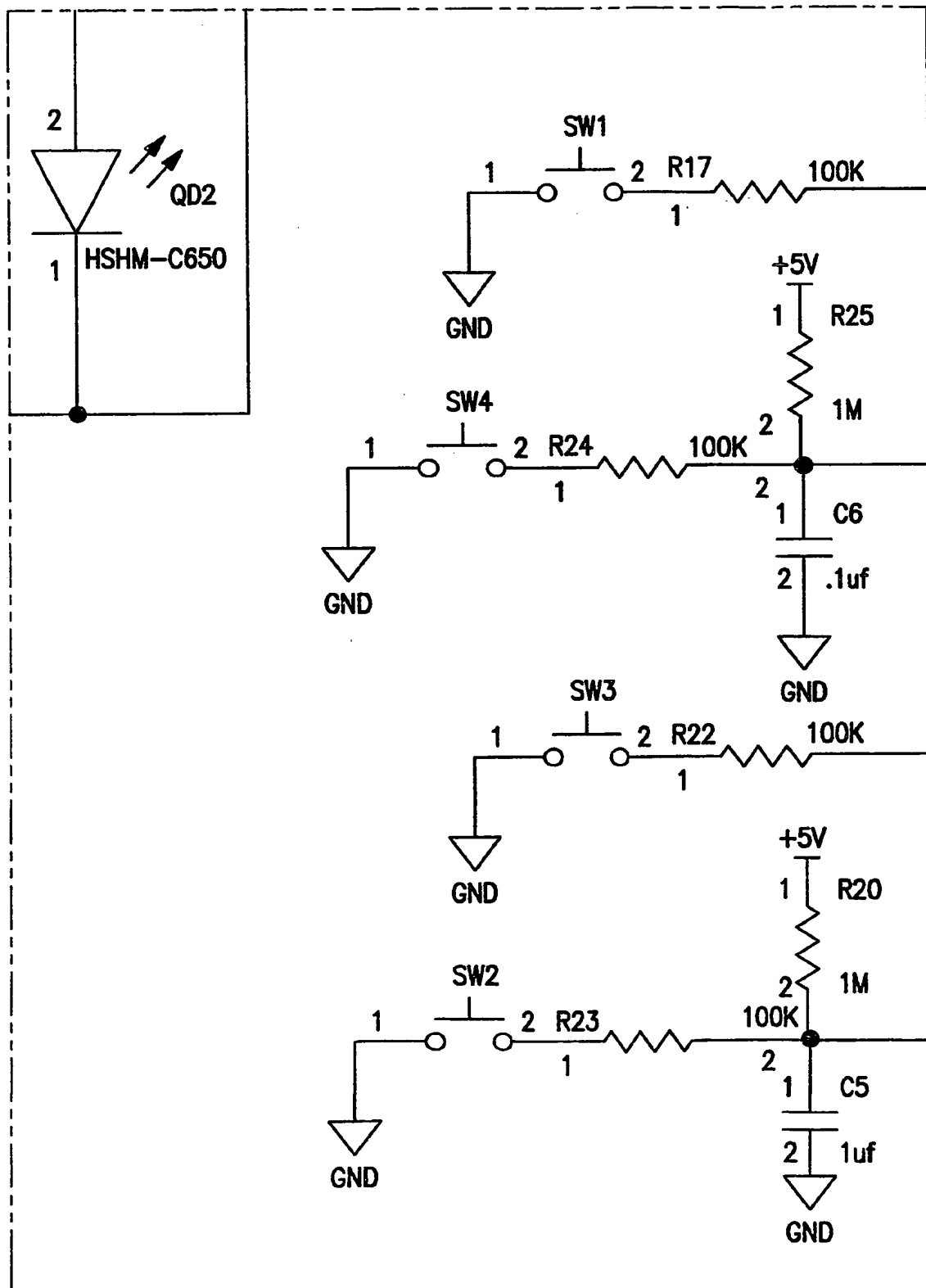
FIG. 68H



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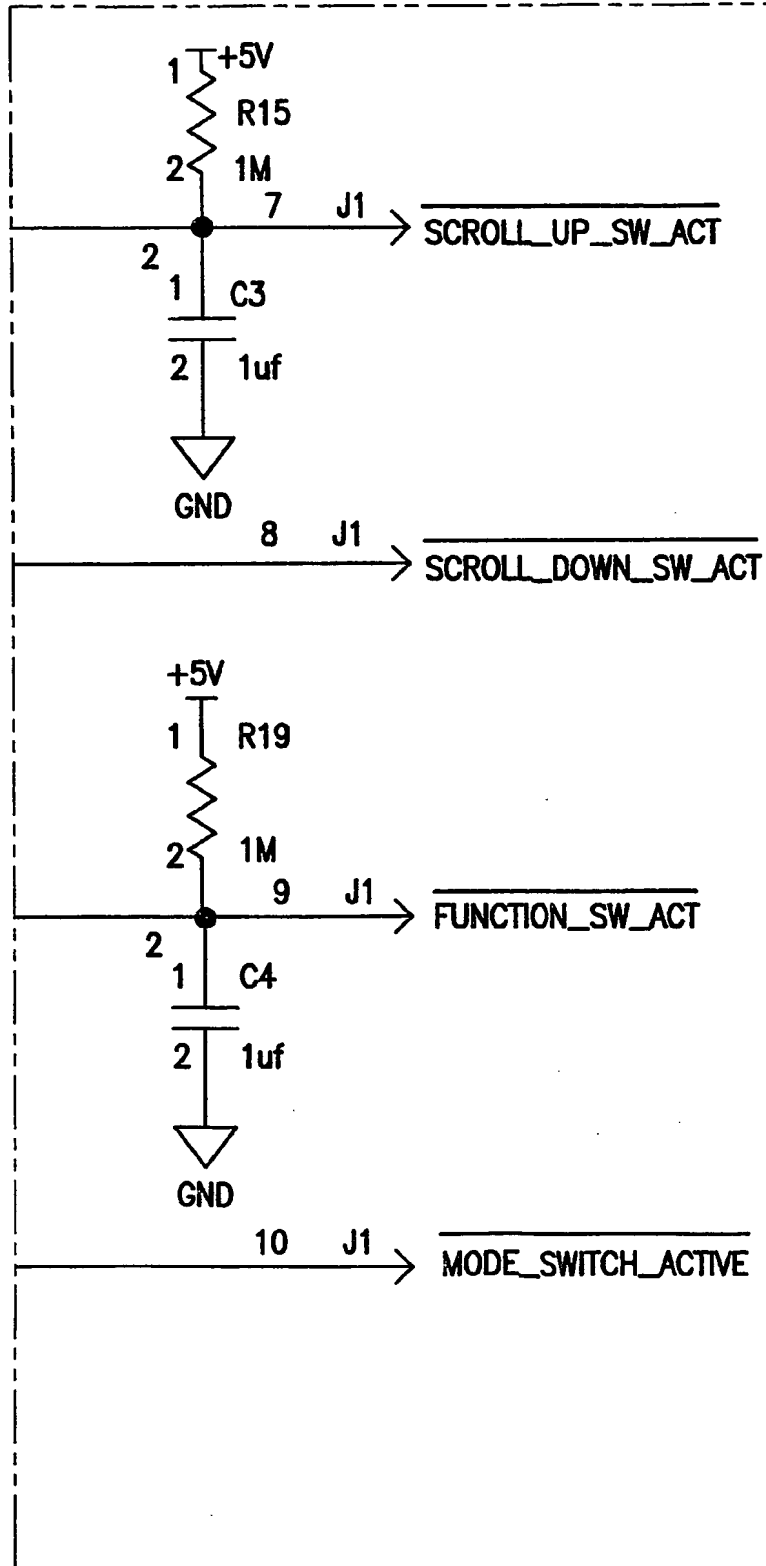
## FIG. 68I



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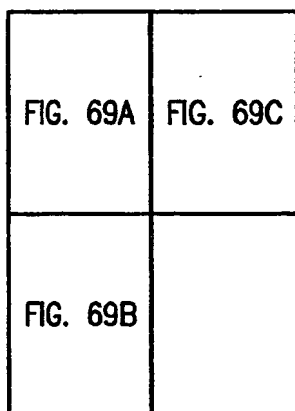
## FIG. 68J



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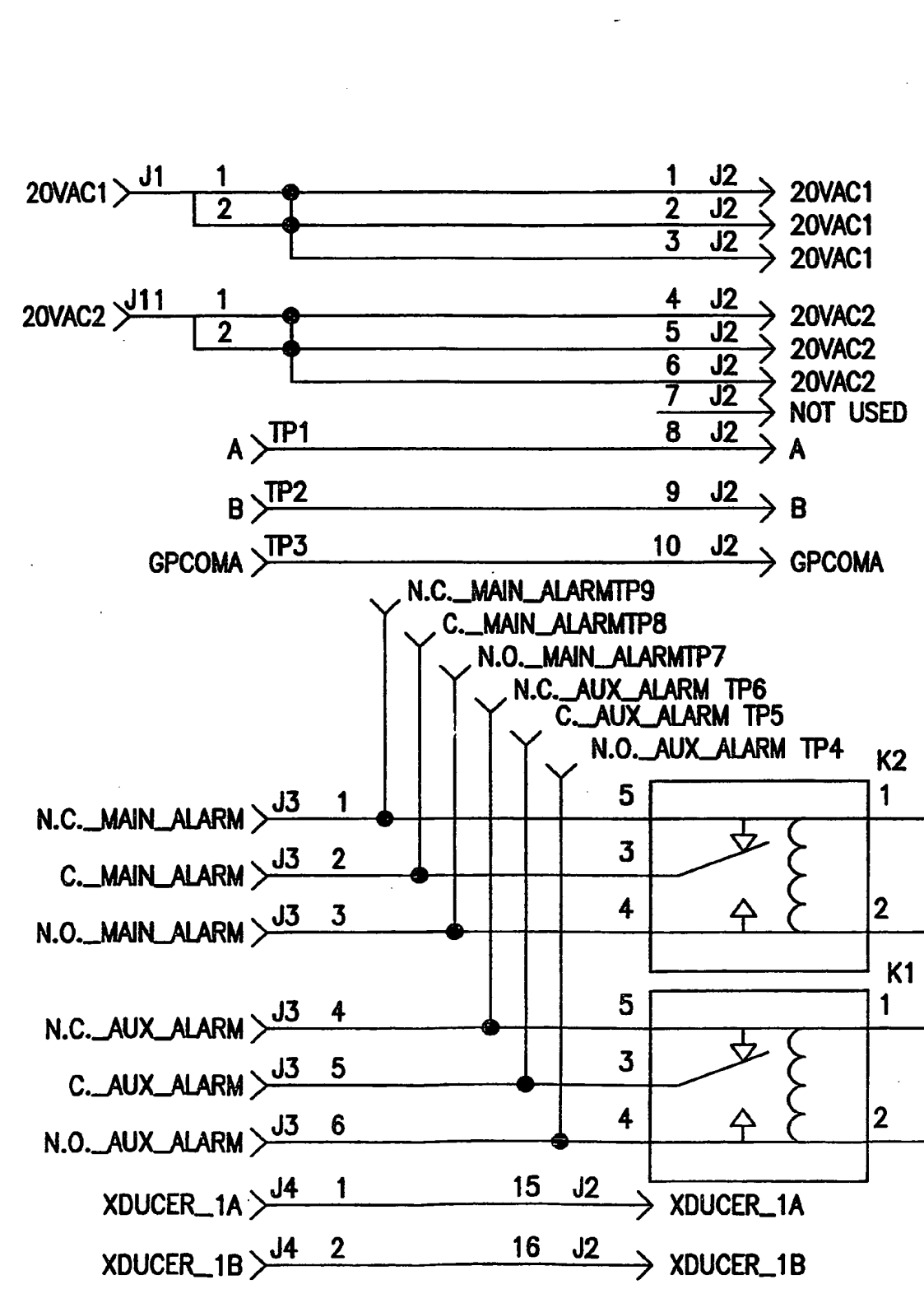
FIG. 69



# REPLACEMENT SHEET

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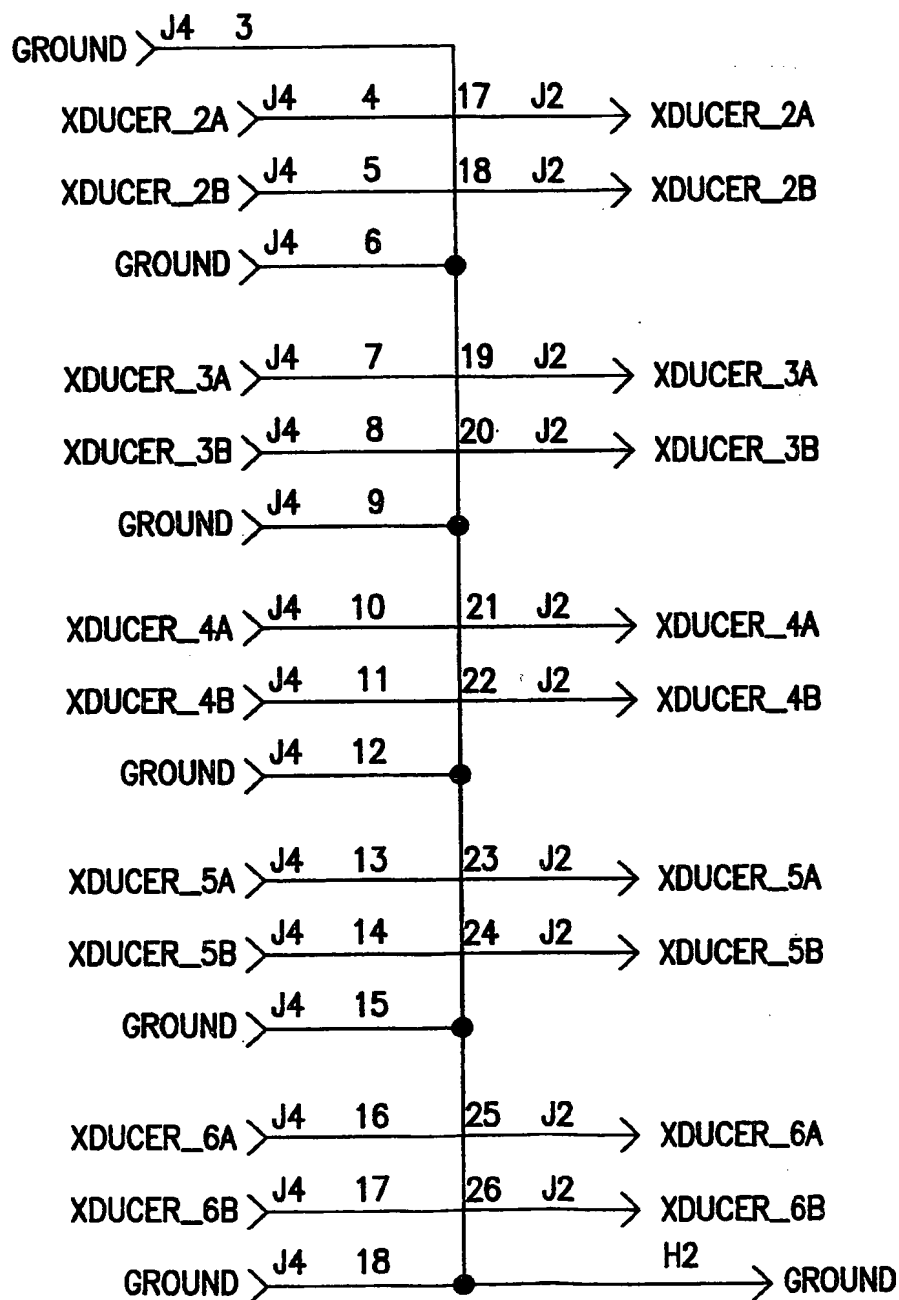
## FIG. 69A



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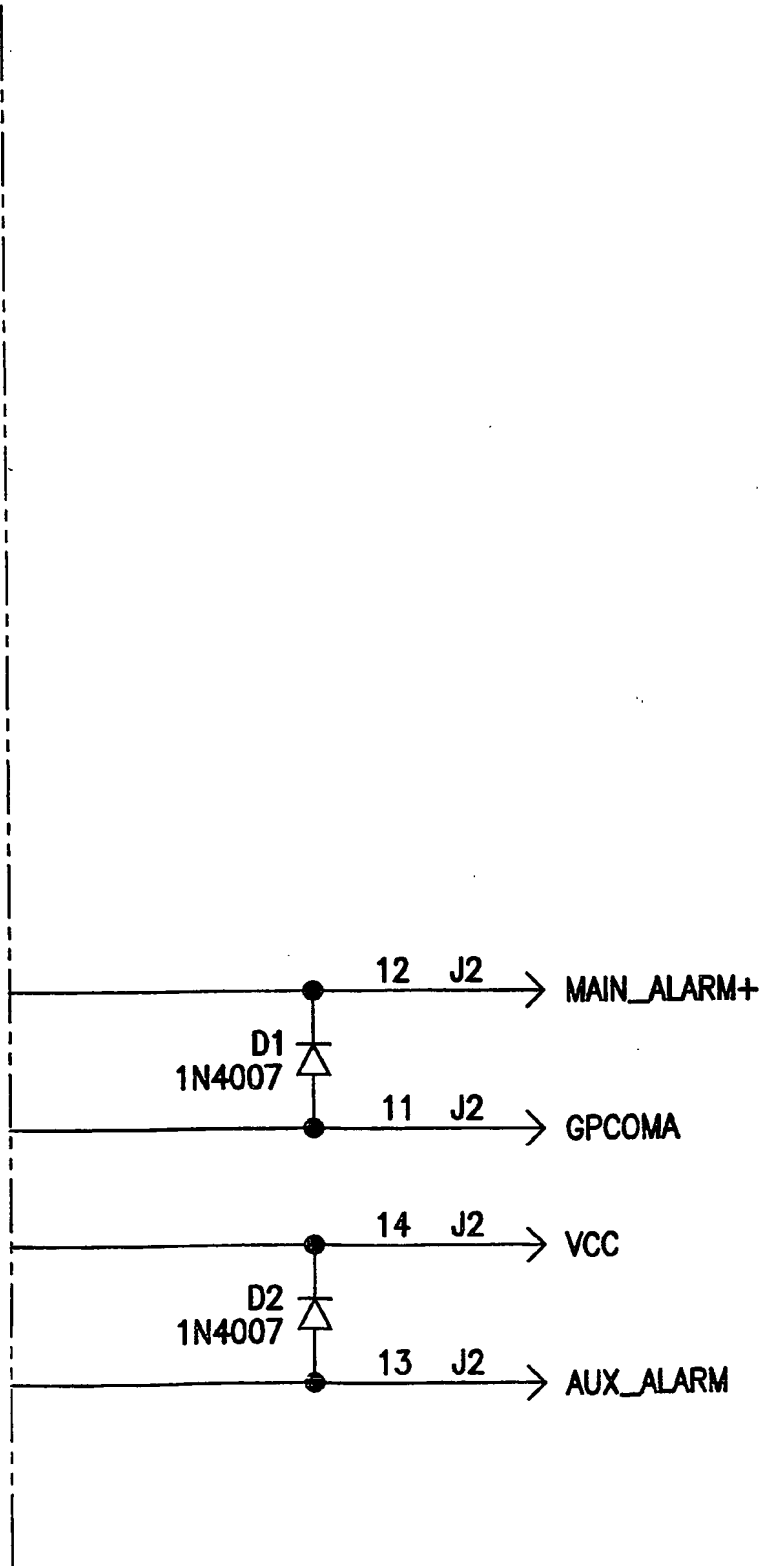
## FIG. 69B



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FIG. 69C





# REPLACEMENT SHEET

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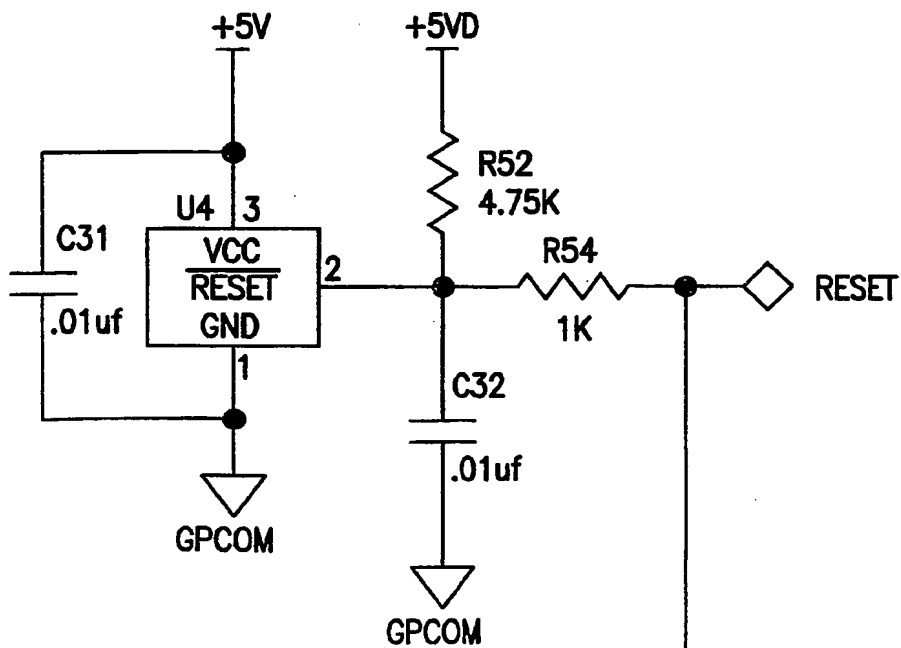
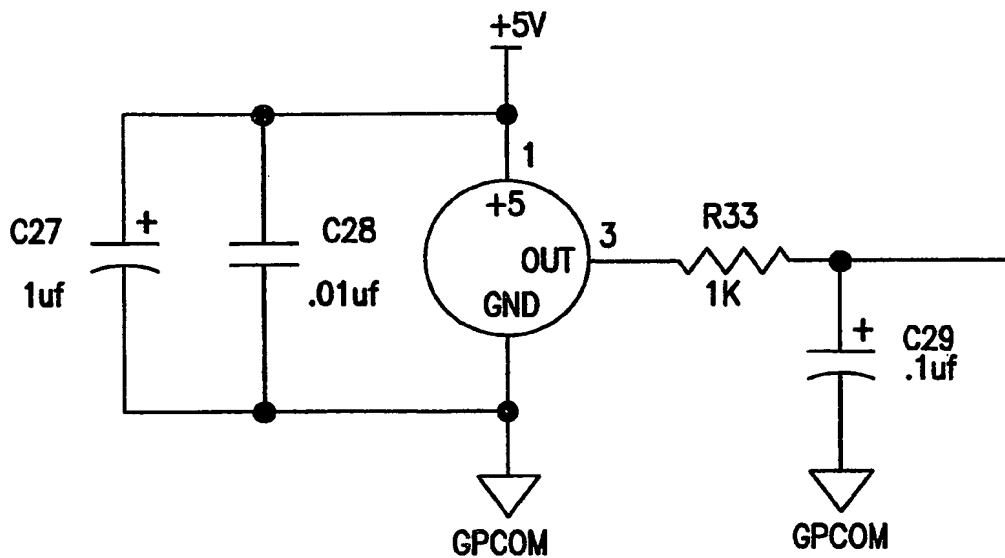
## FIG. 70

FIG. 70A	FIG. 70C	FIG. 70E	FIG. 70G	FIG. 70I
FIG. 70B	FIG. 70D	FIG. 70F	FIG. 70H	FIG. 70J

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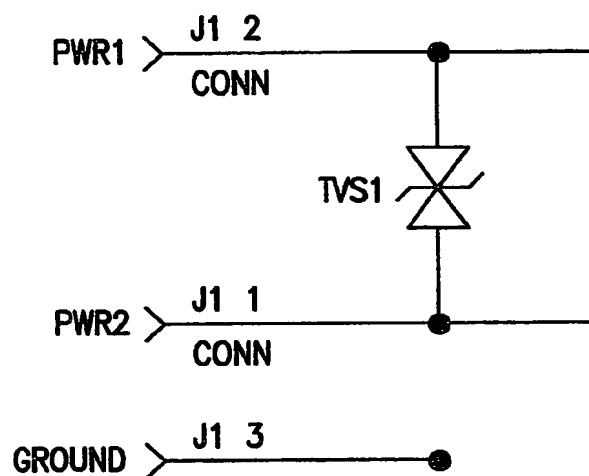
## FIG. 70A



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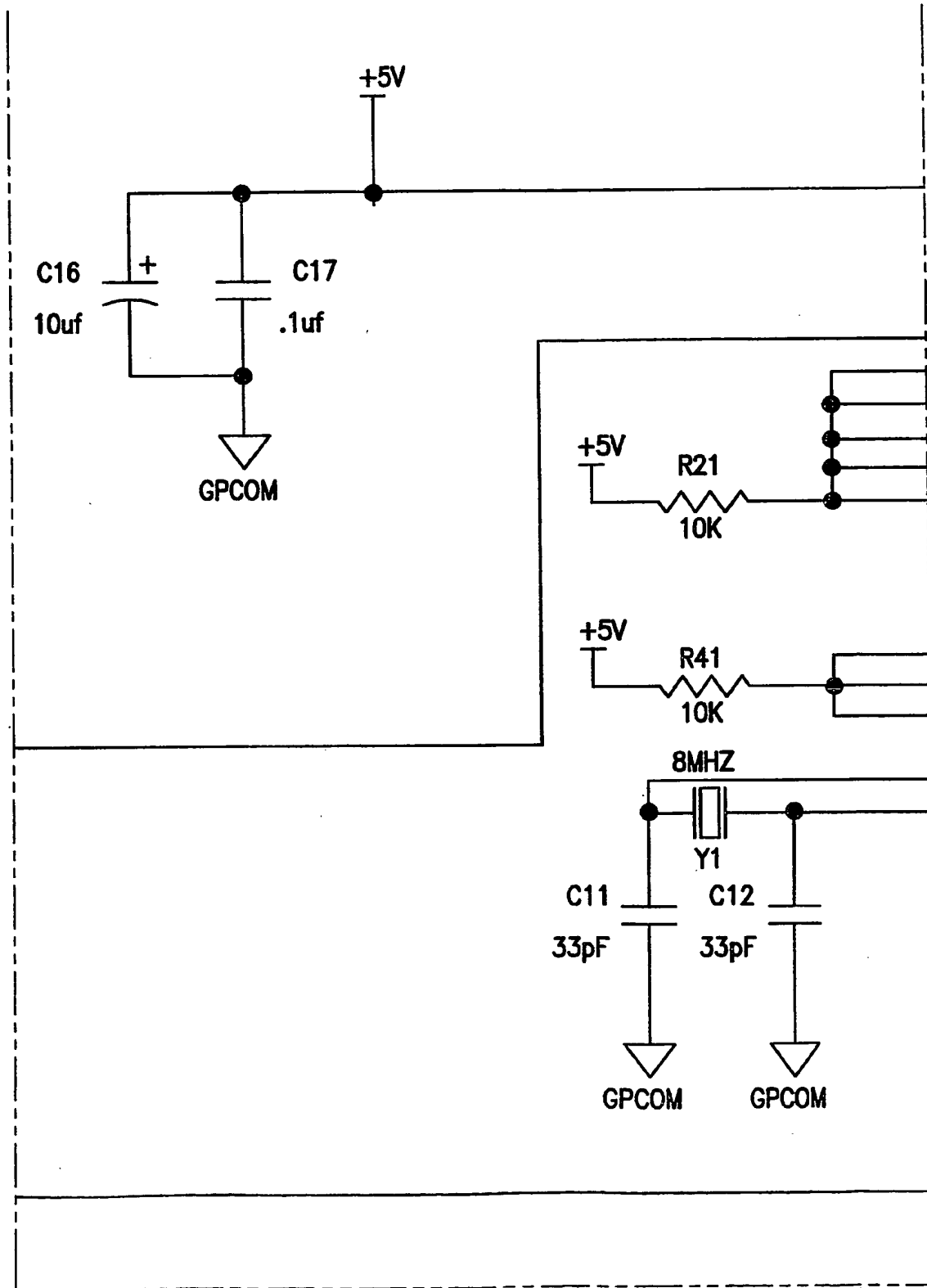
FIG. 70B



# REPLACEMENT SHEET

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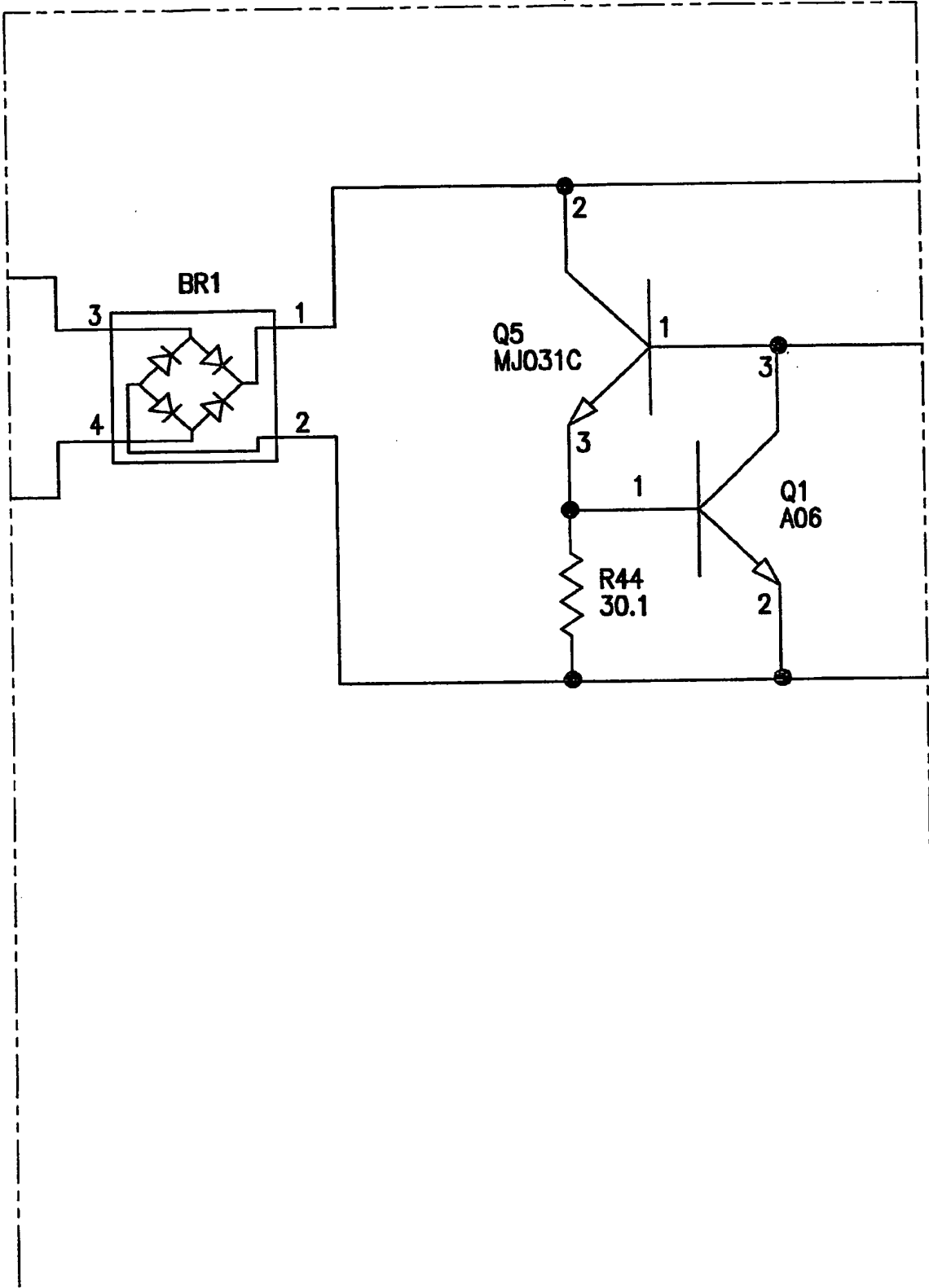
## FIG. 70C



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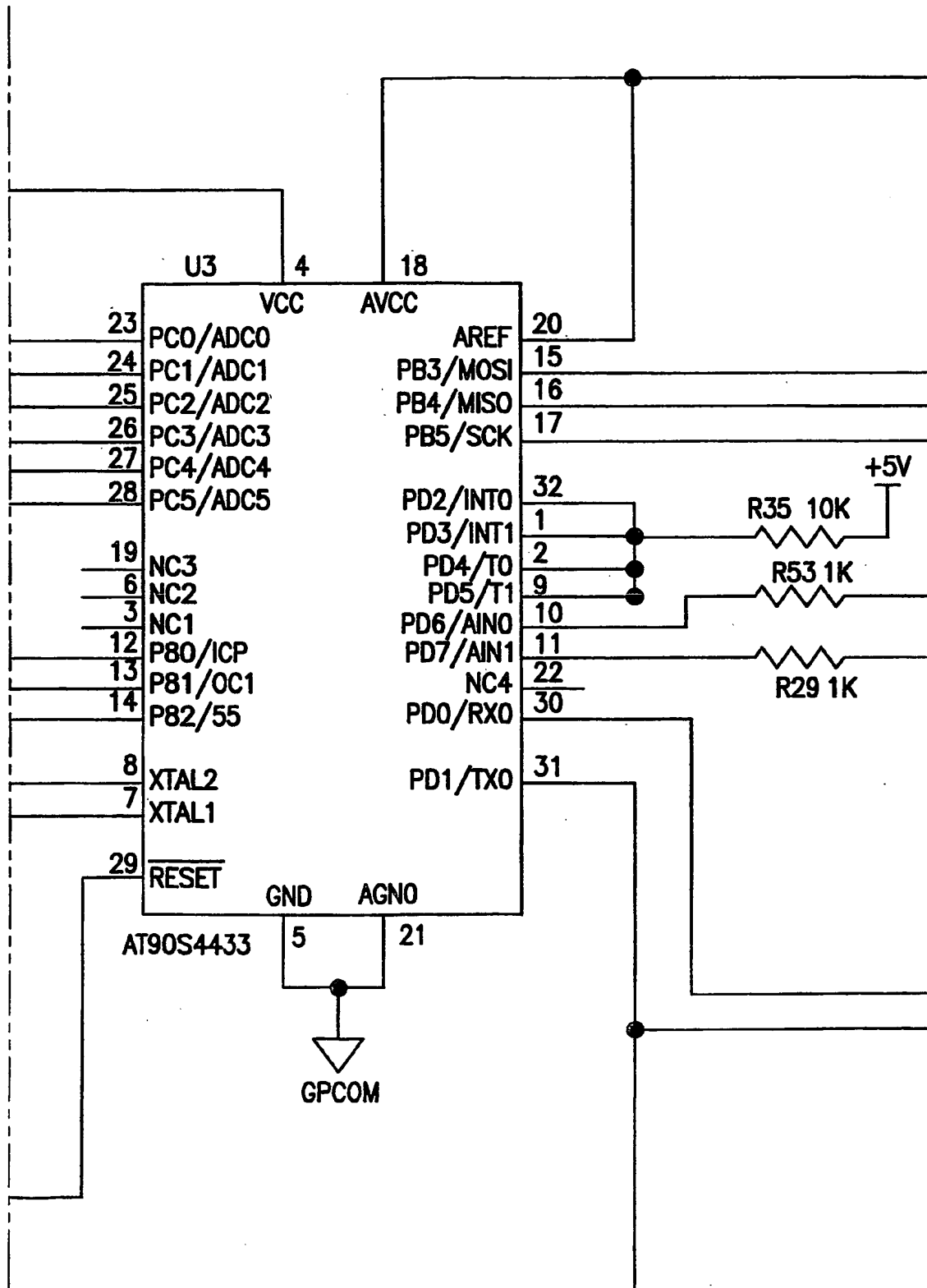
FIG. 70D



# REPLACEMENT SHEET

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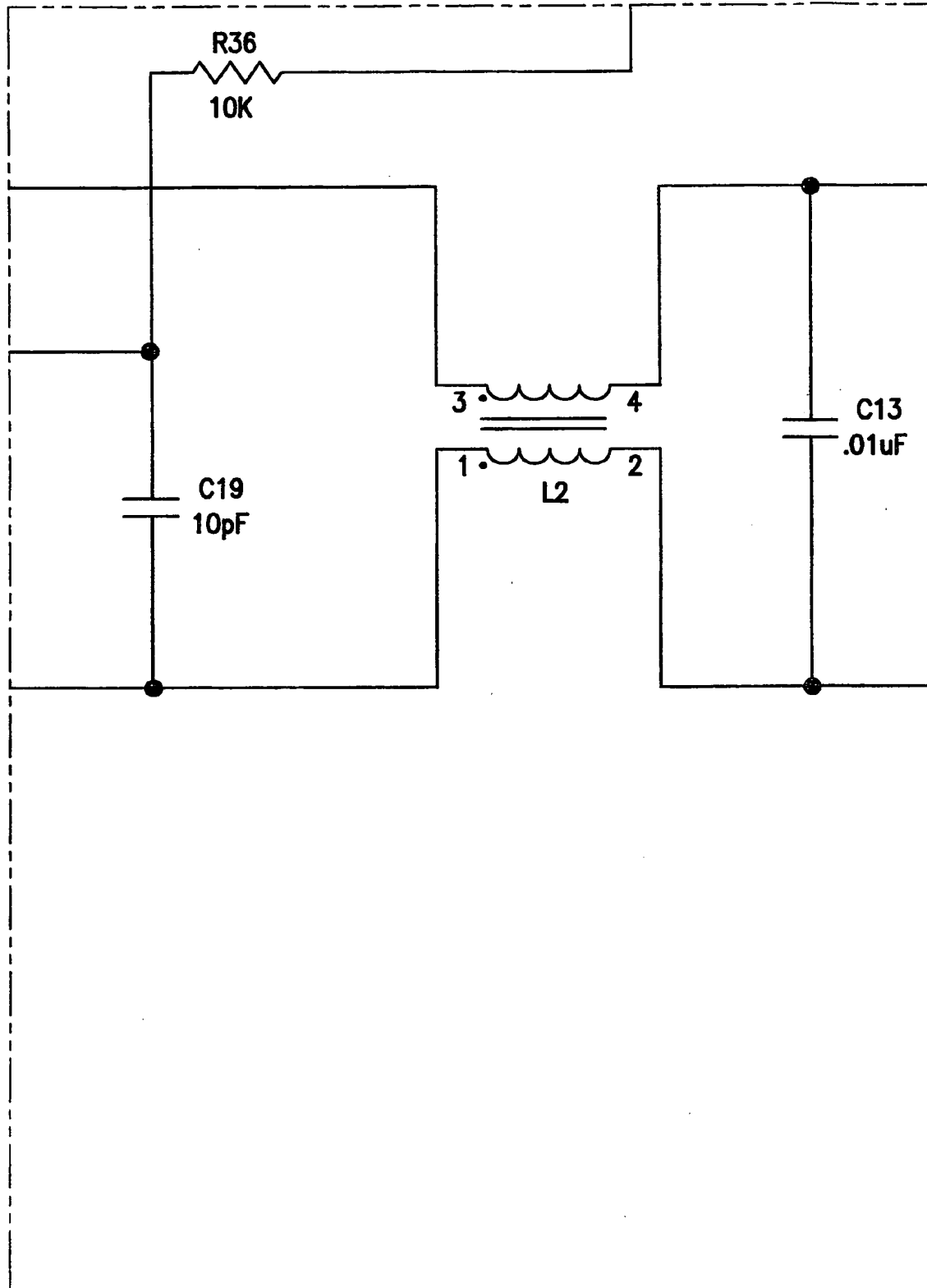
## FIG. 70E



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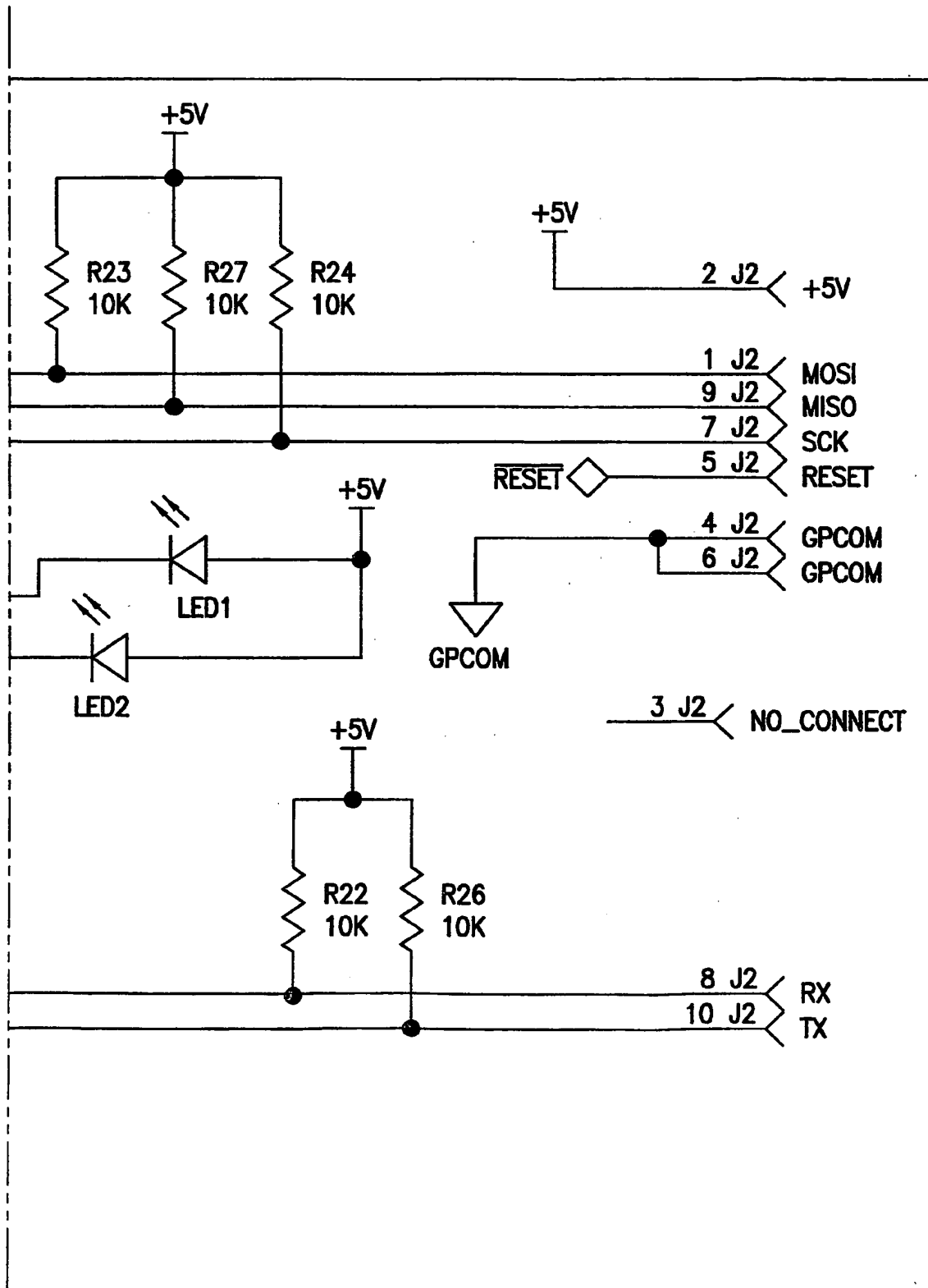
FIG. 70F



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## FIG. 70G

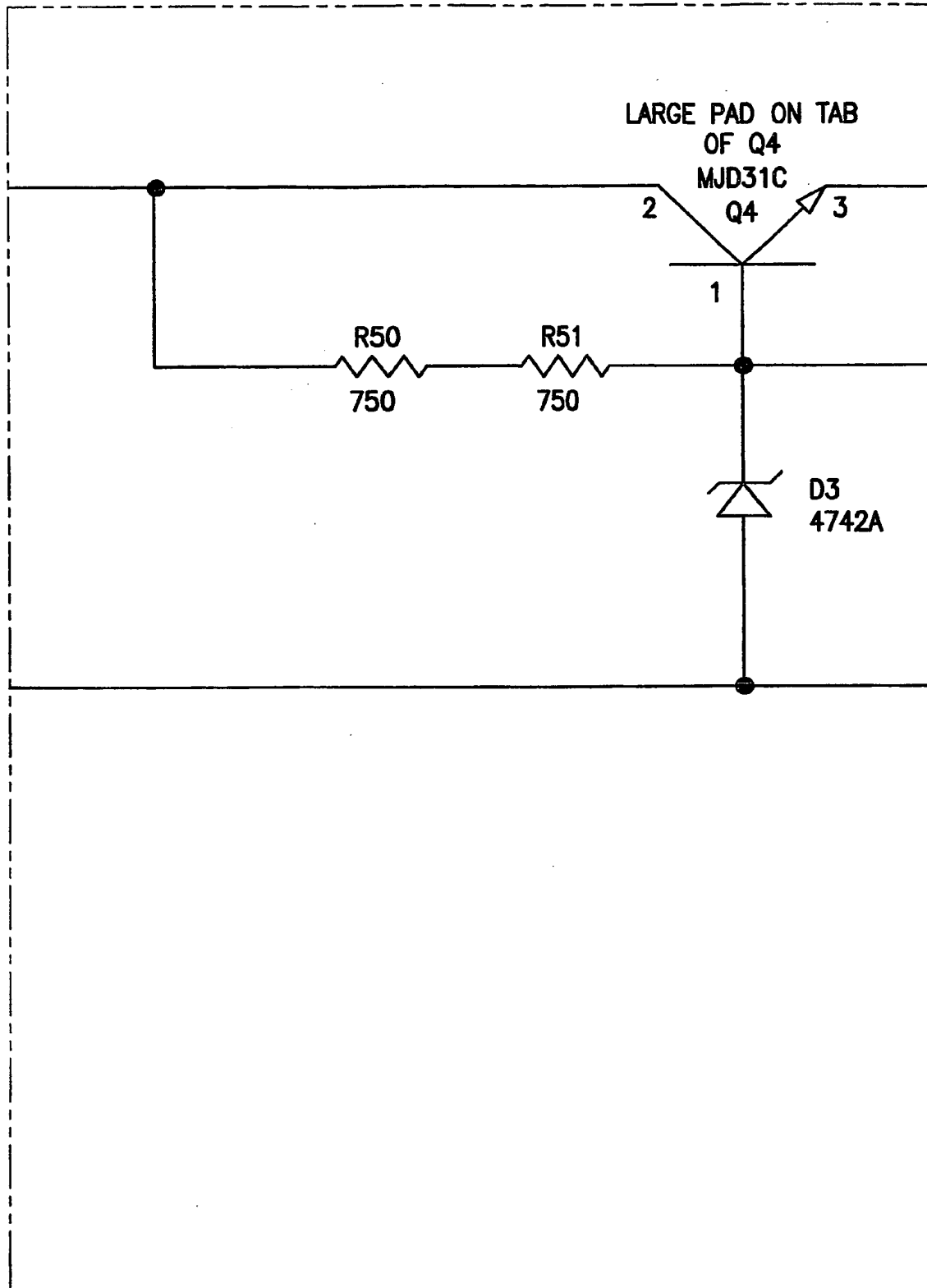




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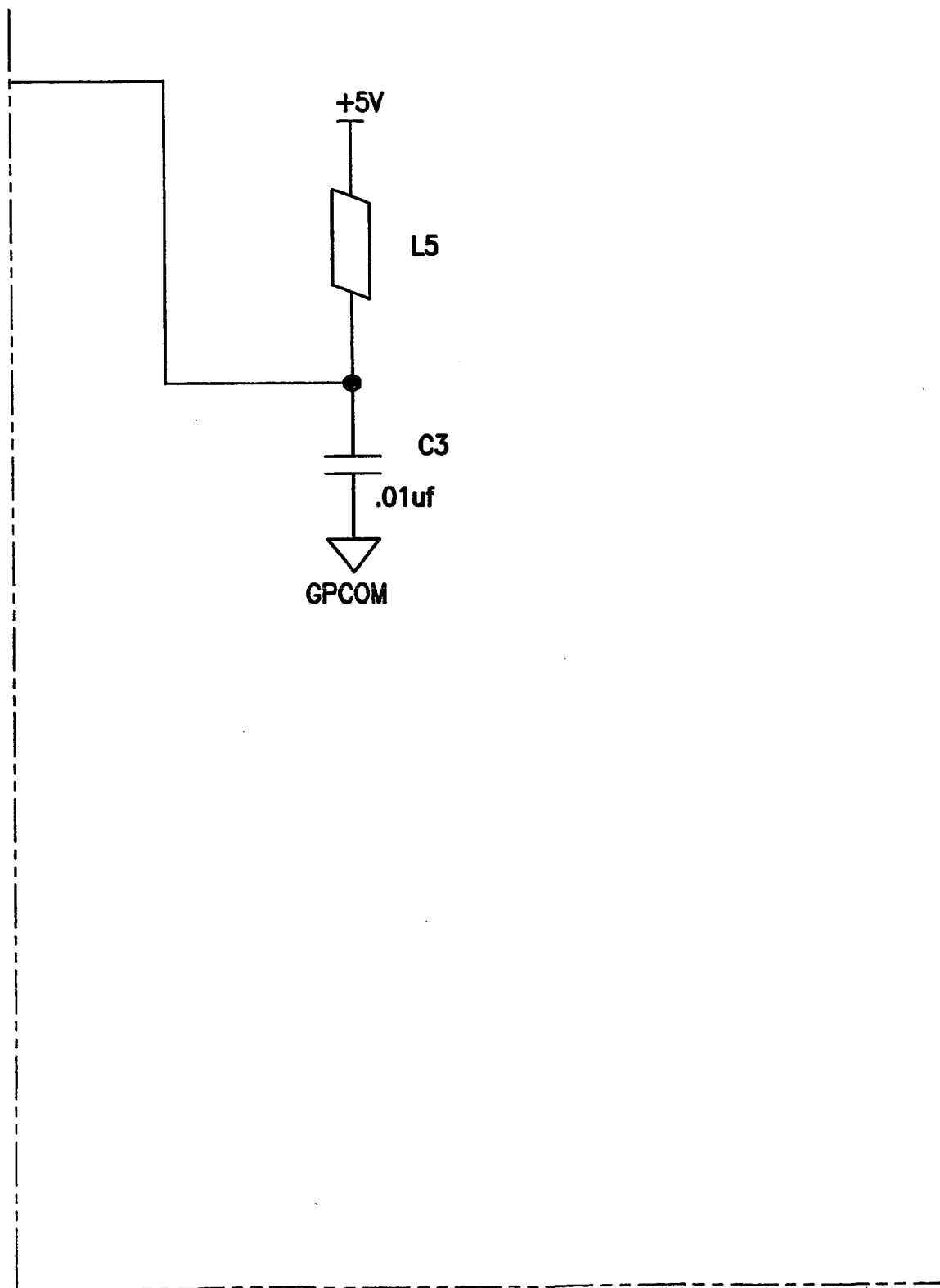
FIG. 70H



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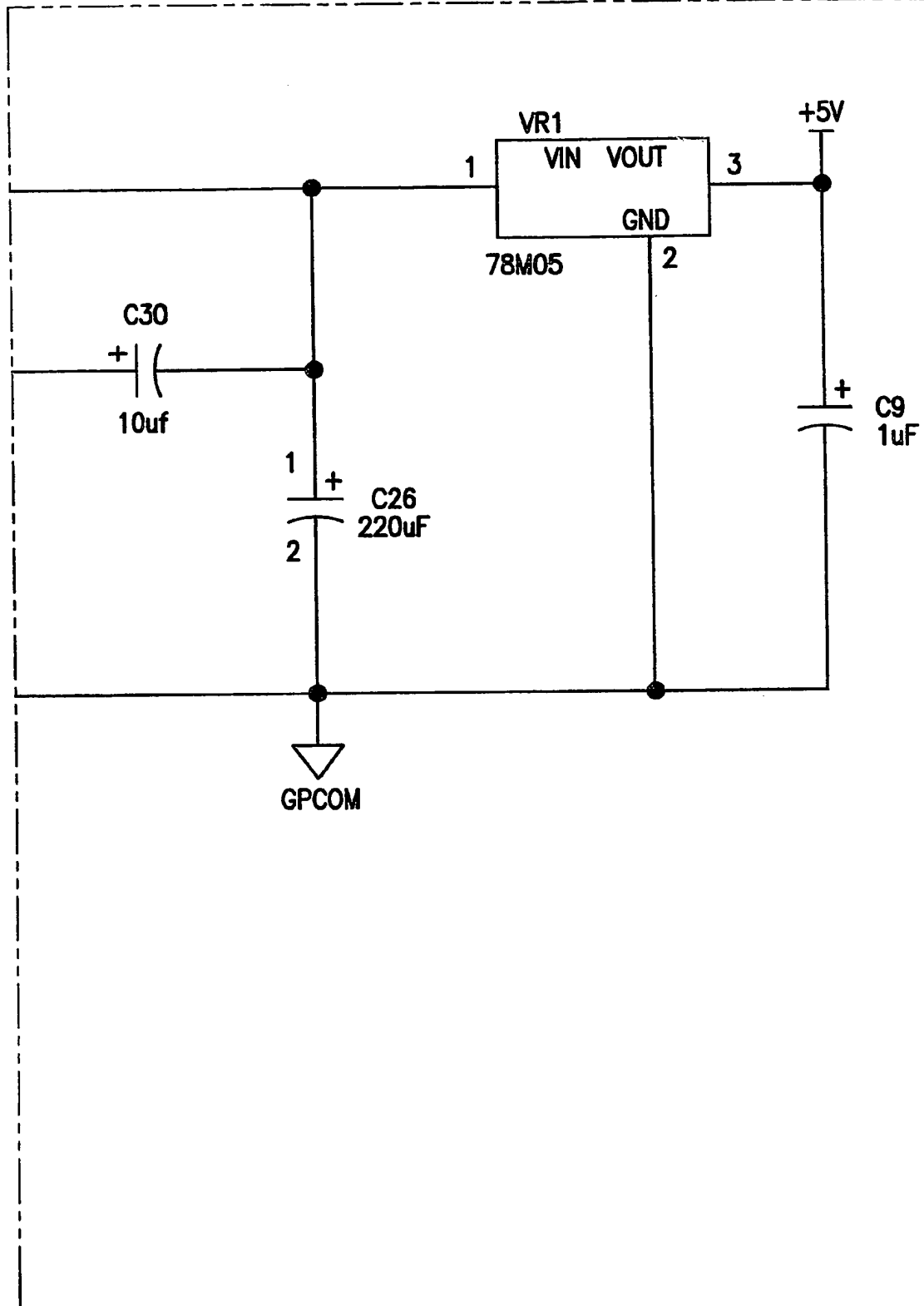
FIG. 701



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## FIG. 70J



# REPLACEMENT SHEET

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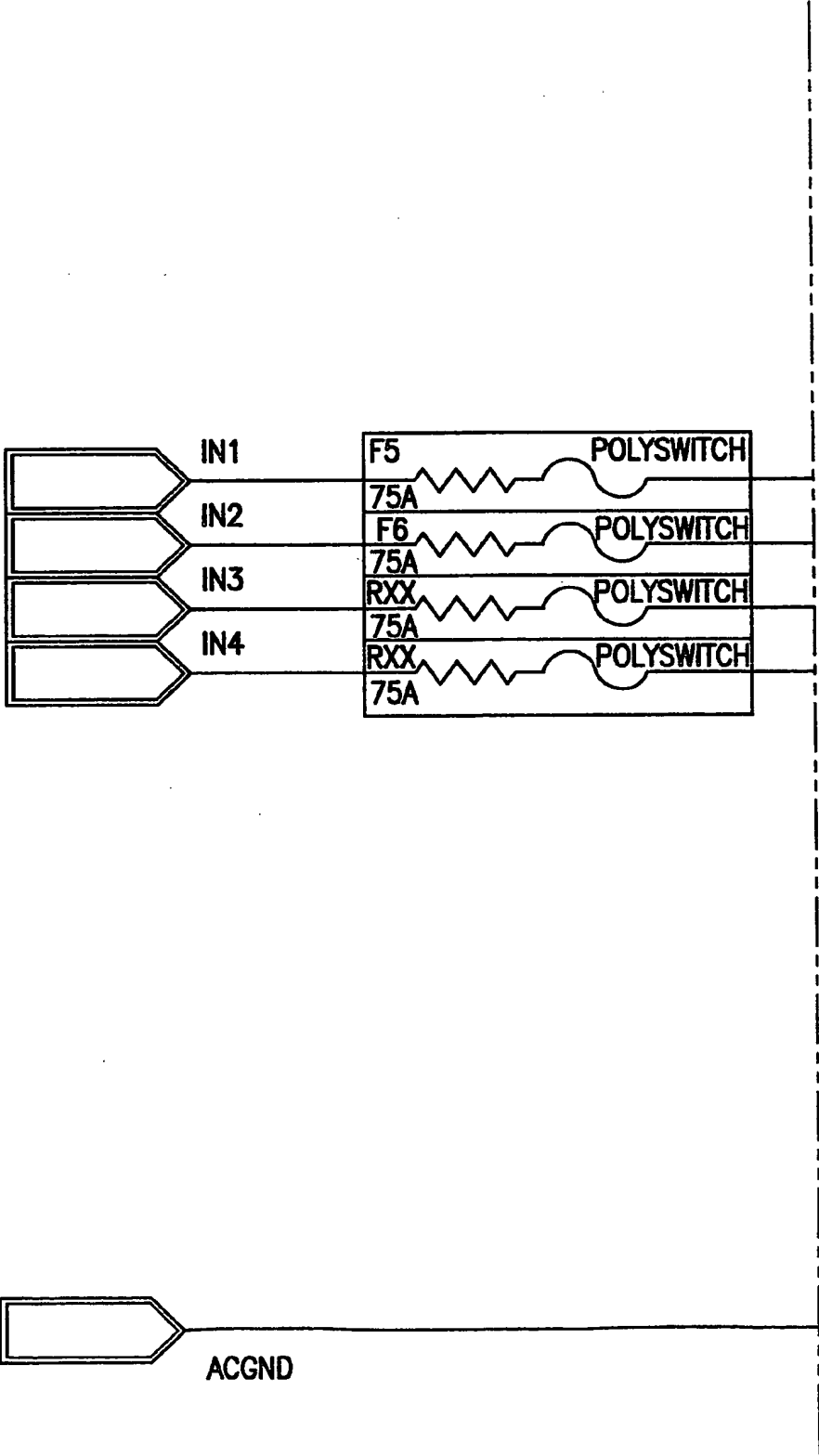
FIG. 71

FIG. 71A	FIG. 71B	FIG. 71C	FIG. 71D
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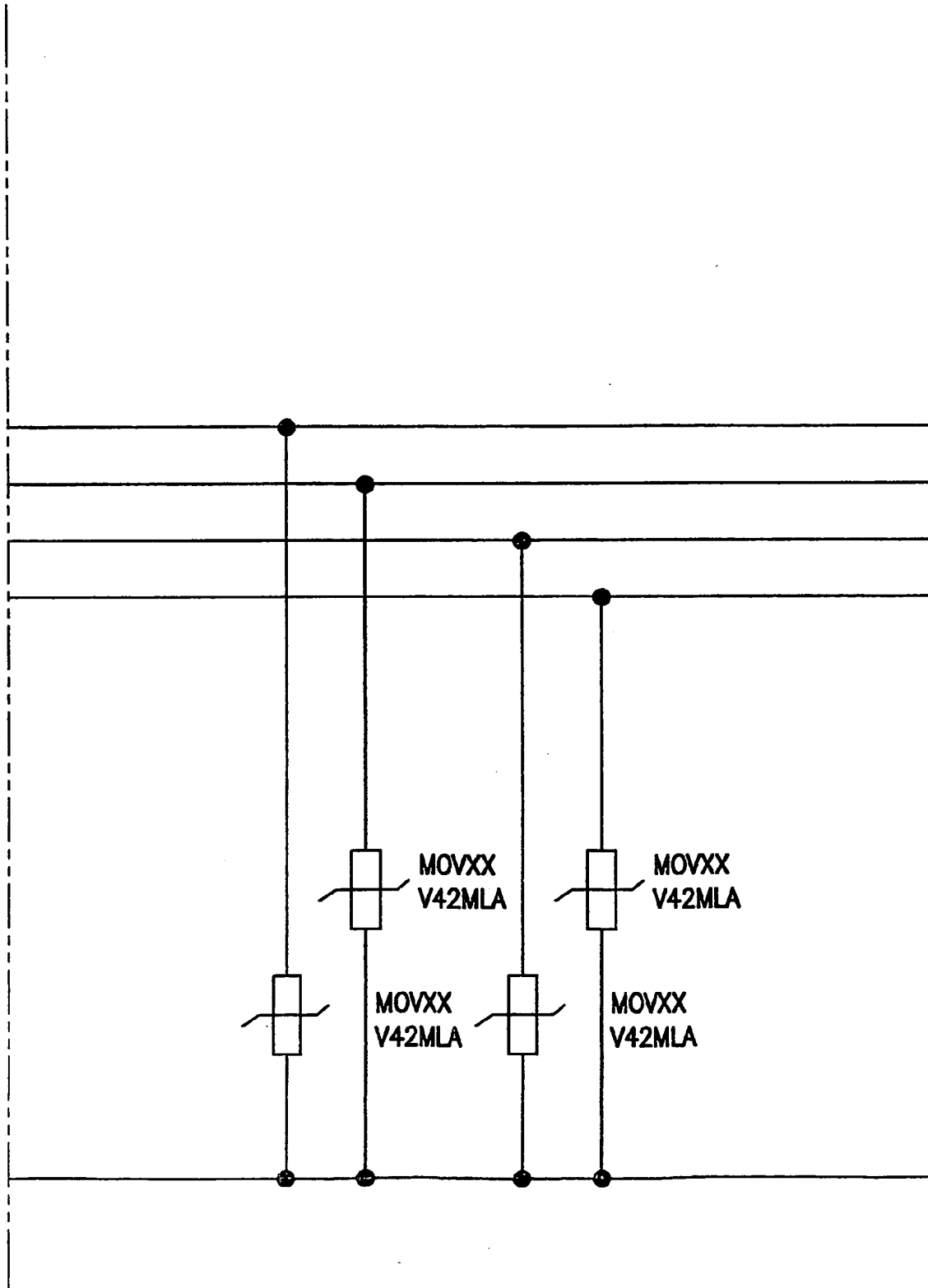
FIG. 71A



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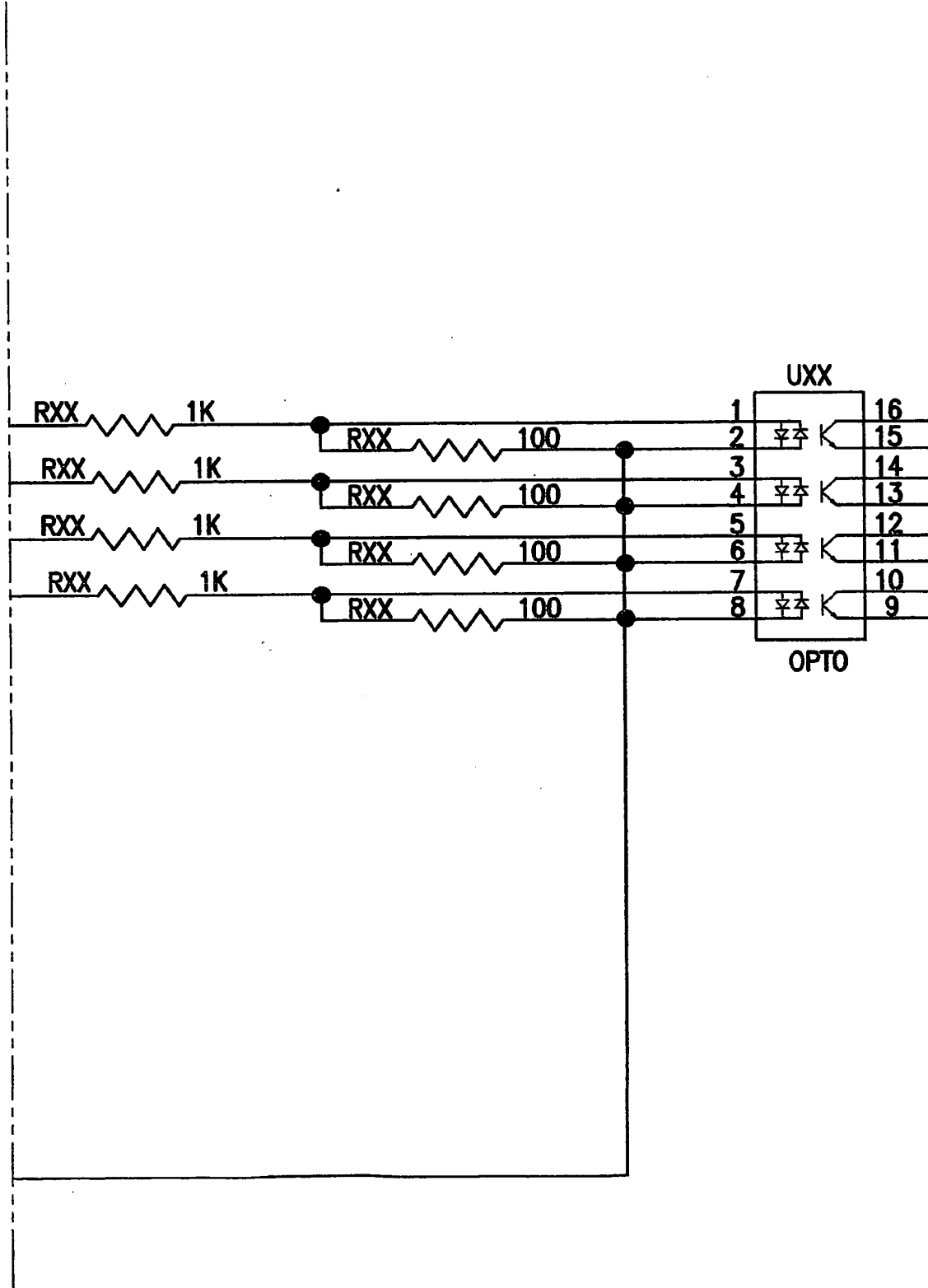
FIG. 71B



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FIG. 71C



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FIG. 71D

